

FIG. 1 is a block diagram of a search engine 100. A search key 102 is input to a search engine 100. The search engine 100 includes a match logic 103 and an associated storage 111. The match logic 103 is connected to the associated storage 111 via a match address 114 and a match function 116. The match logic 103 is also connected to a memory 107 via a match logic 105 and a match function 116. The match logic 103 is also connected to a match function 116 via a match function 116.

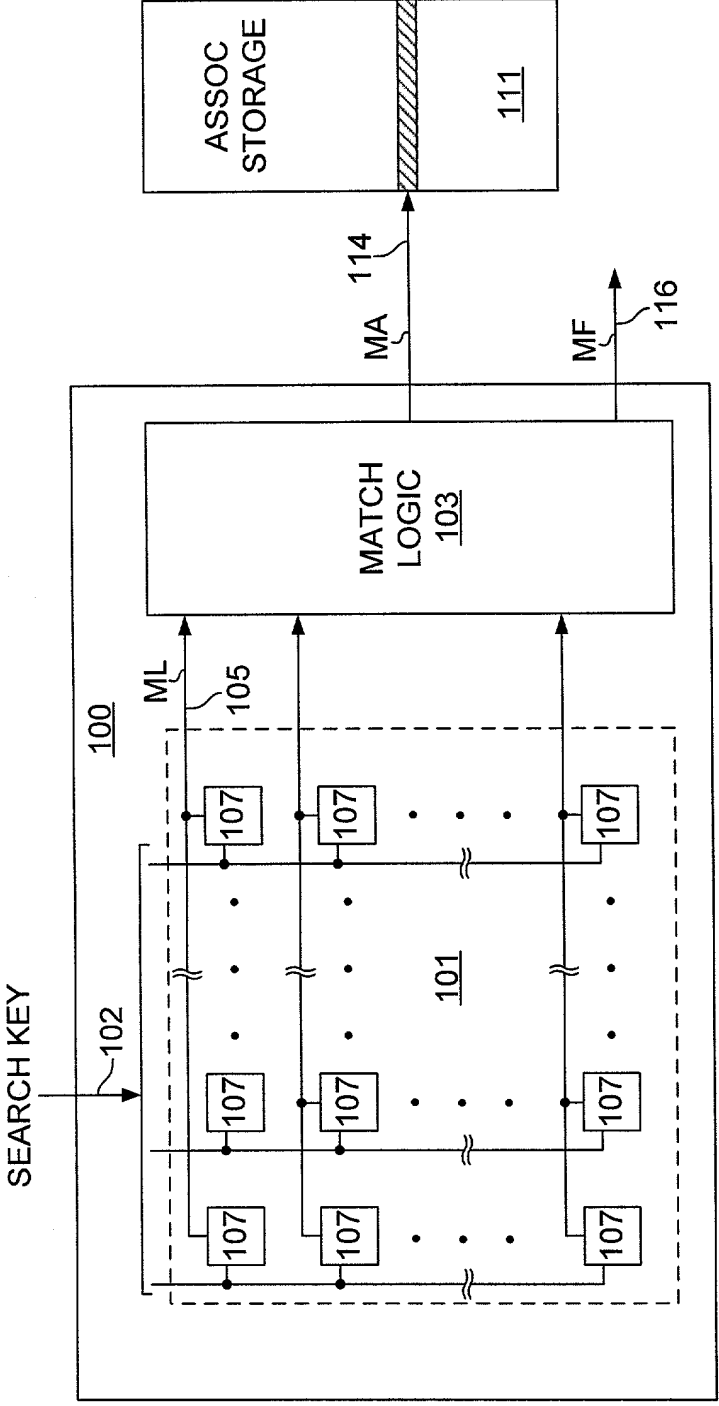


FIG. 1
(Prior Art)

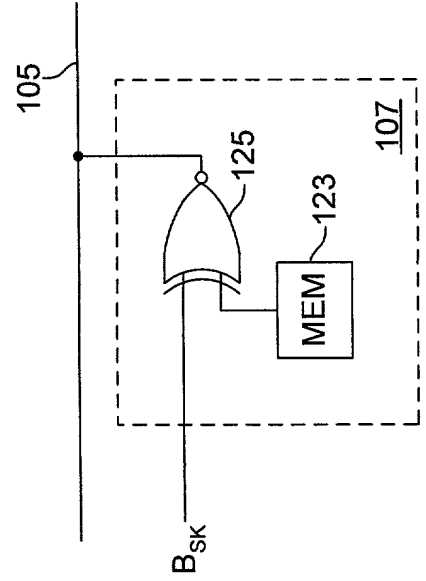


FIG. 2
(Prior Art)

FIG. 3

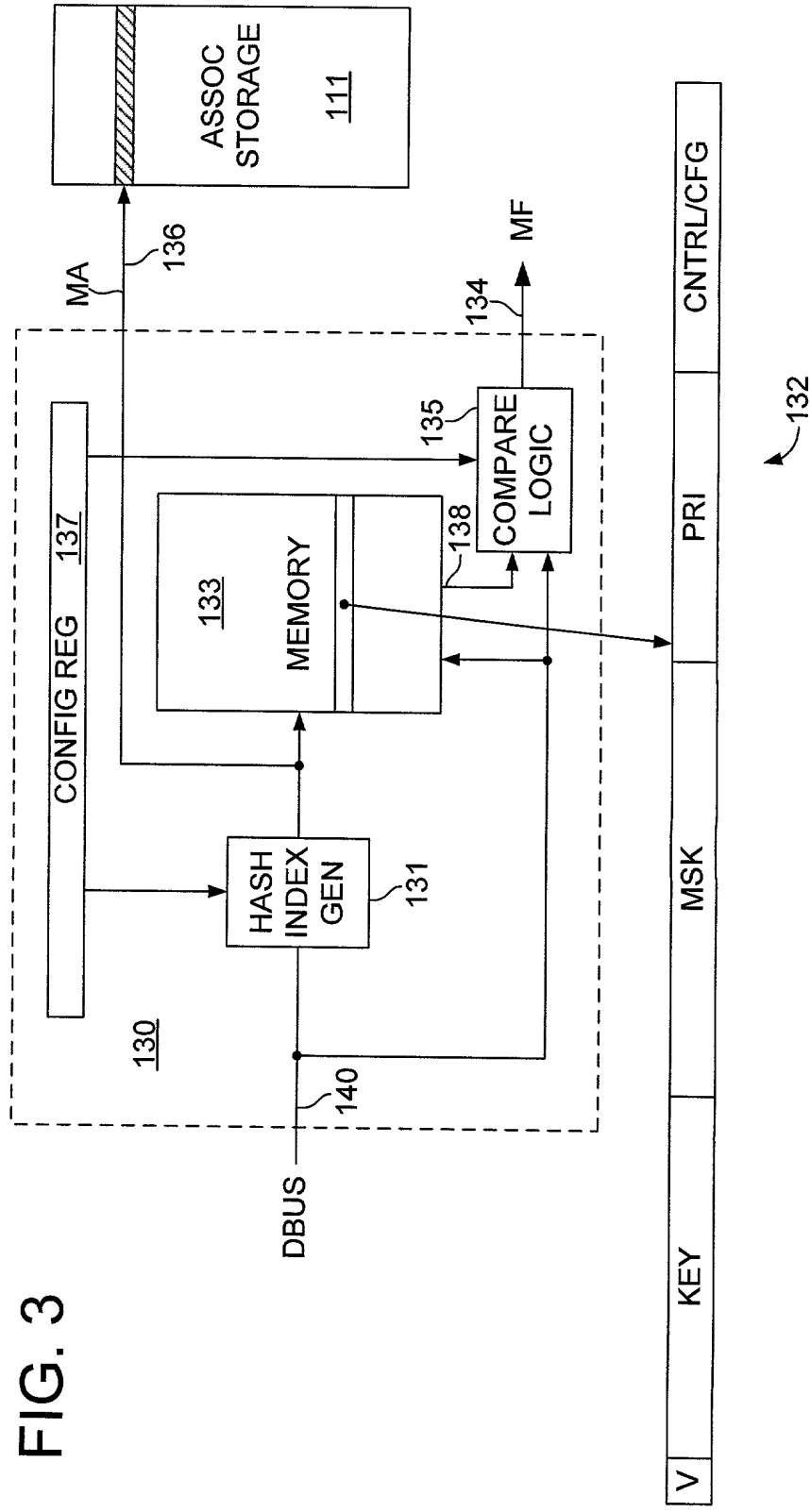


FIG. 4

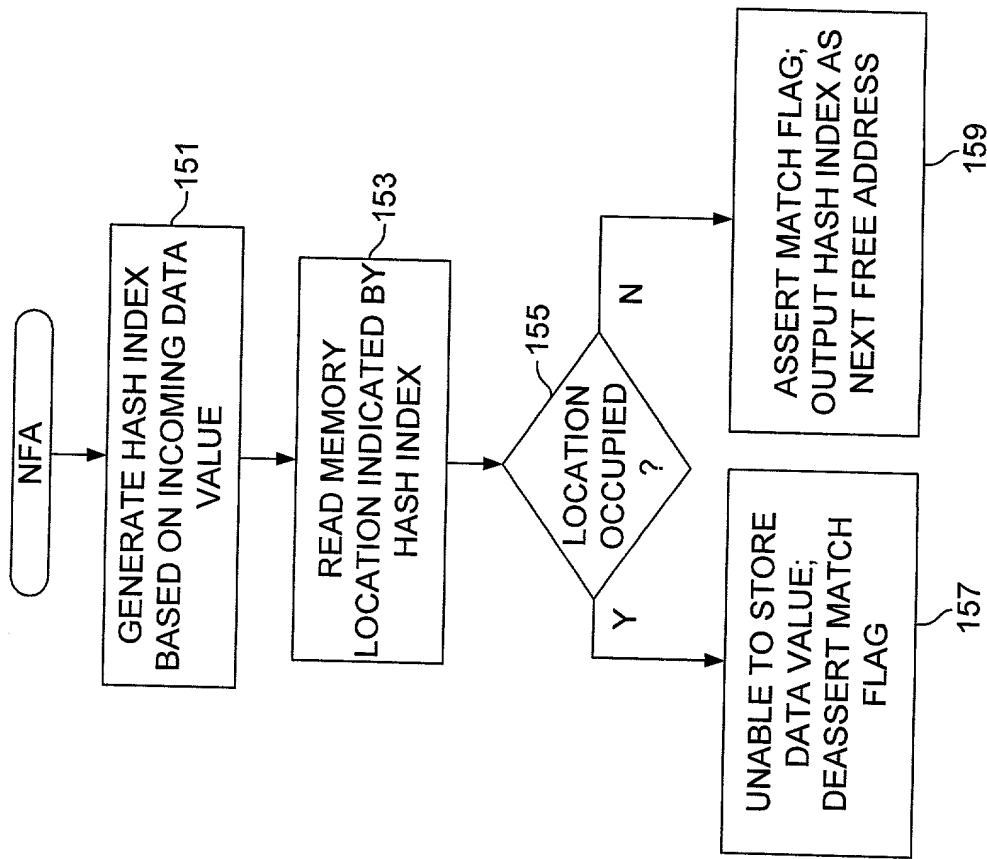
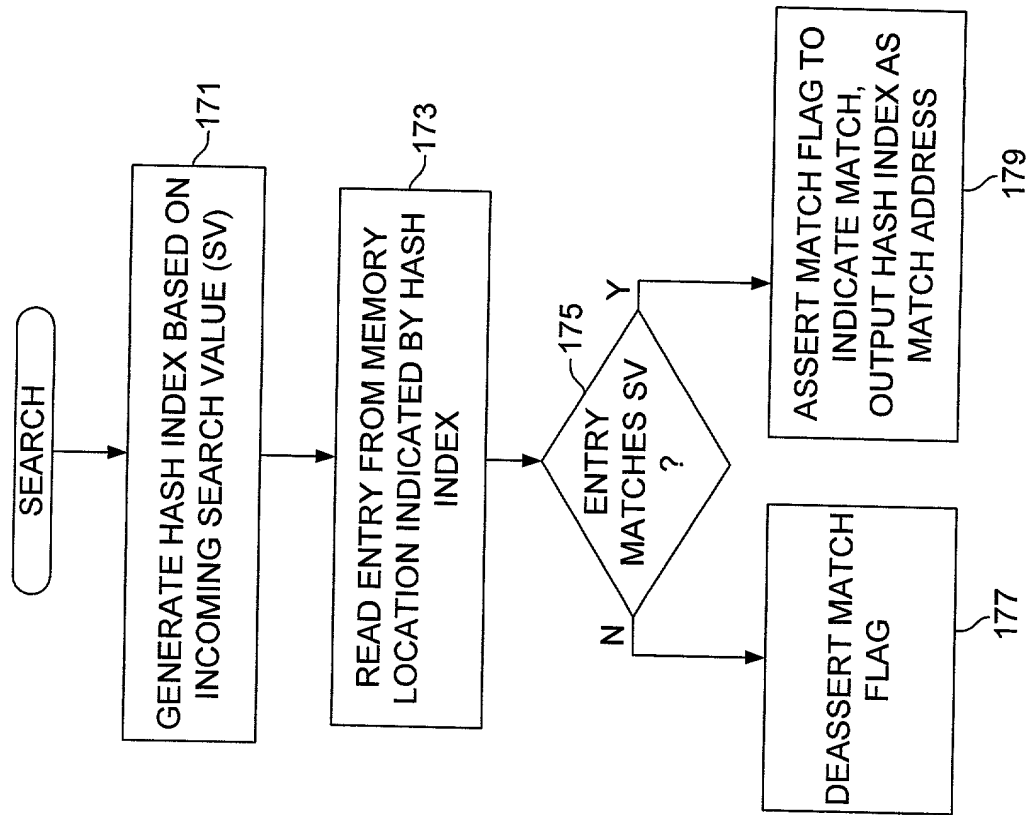


FIG. 5



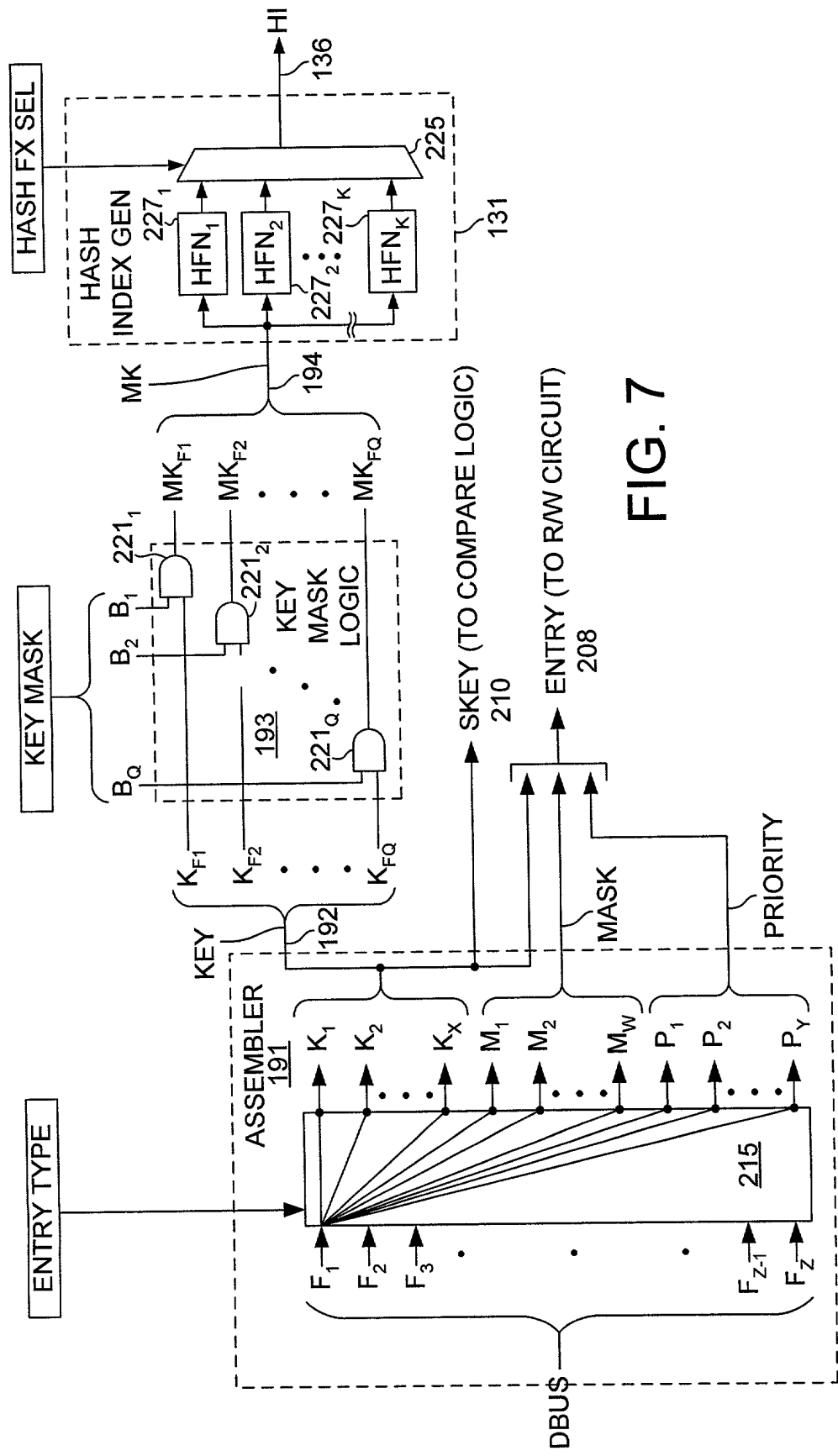


FIG. 7

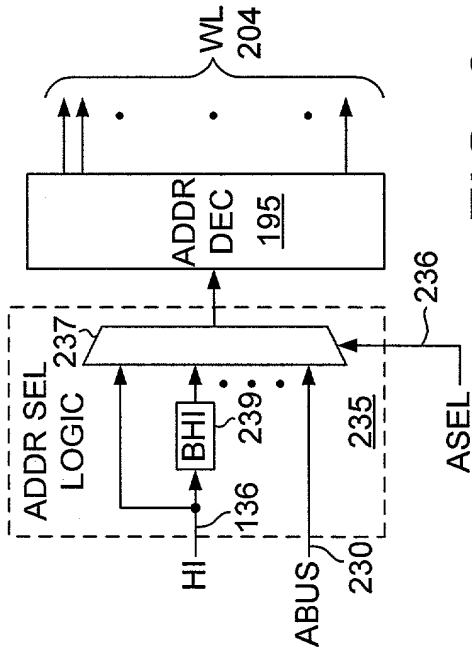


FIG. 8

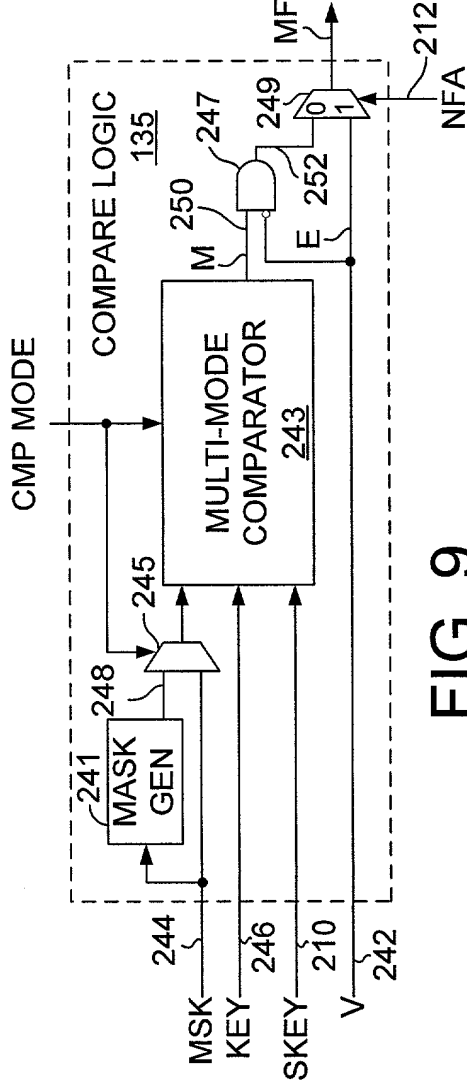


FIG. 9

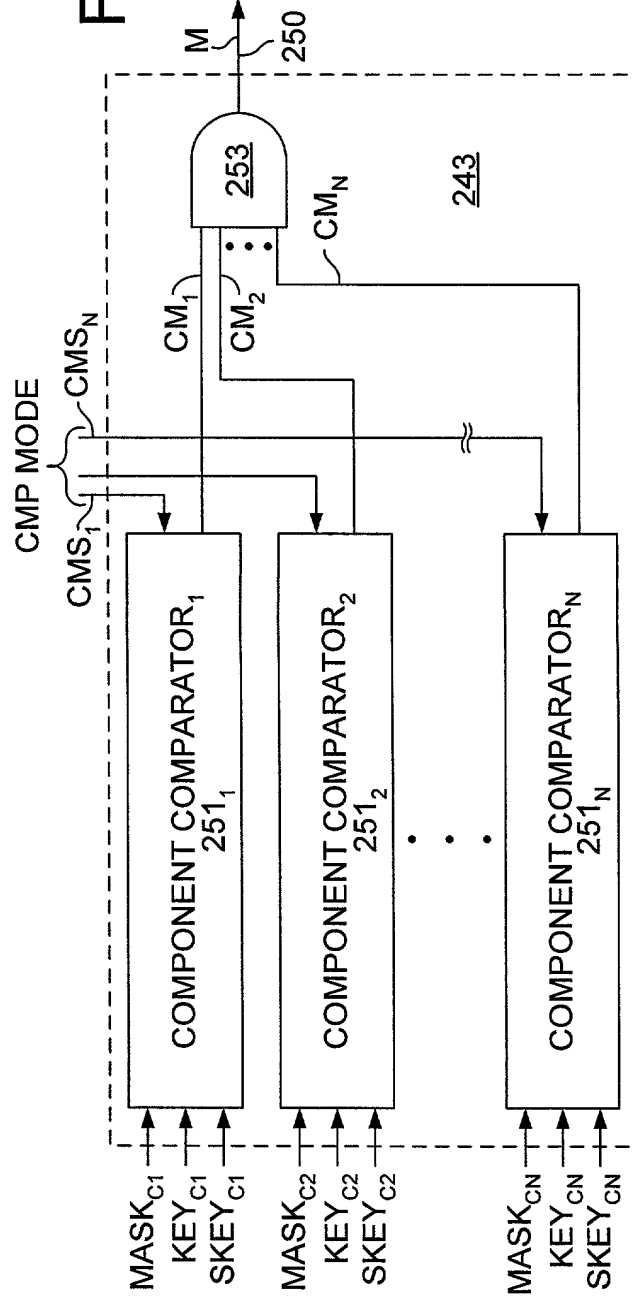


FIG. 10

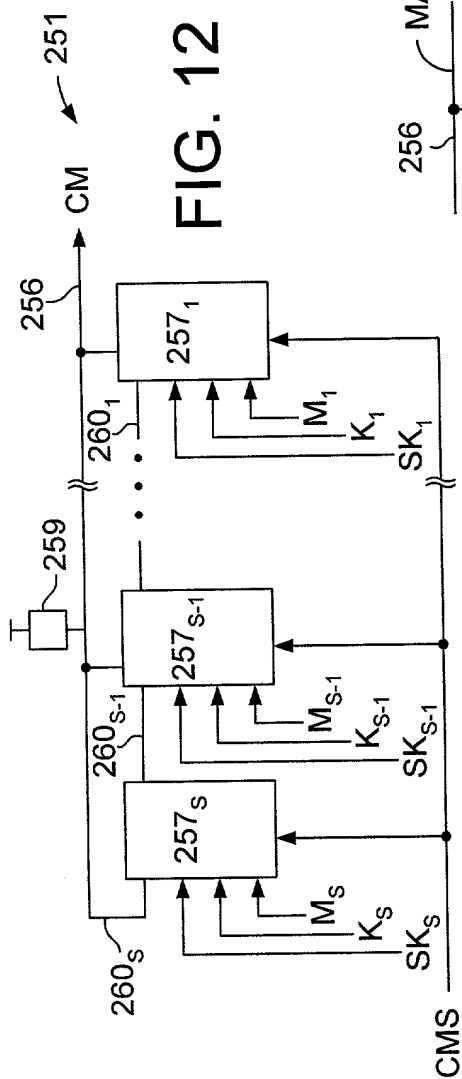


FIG. 12

FIG. 13

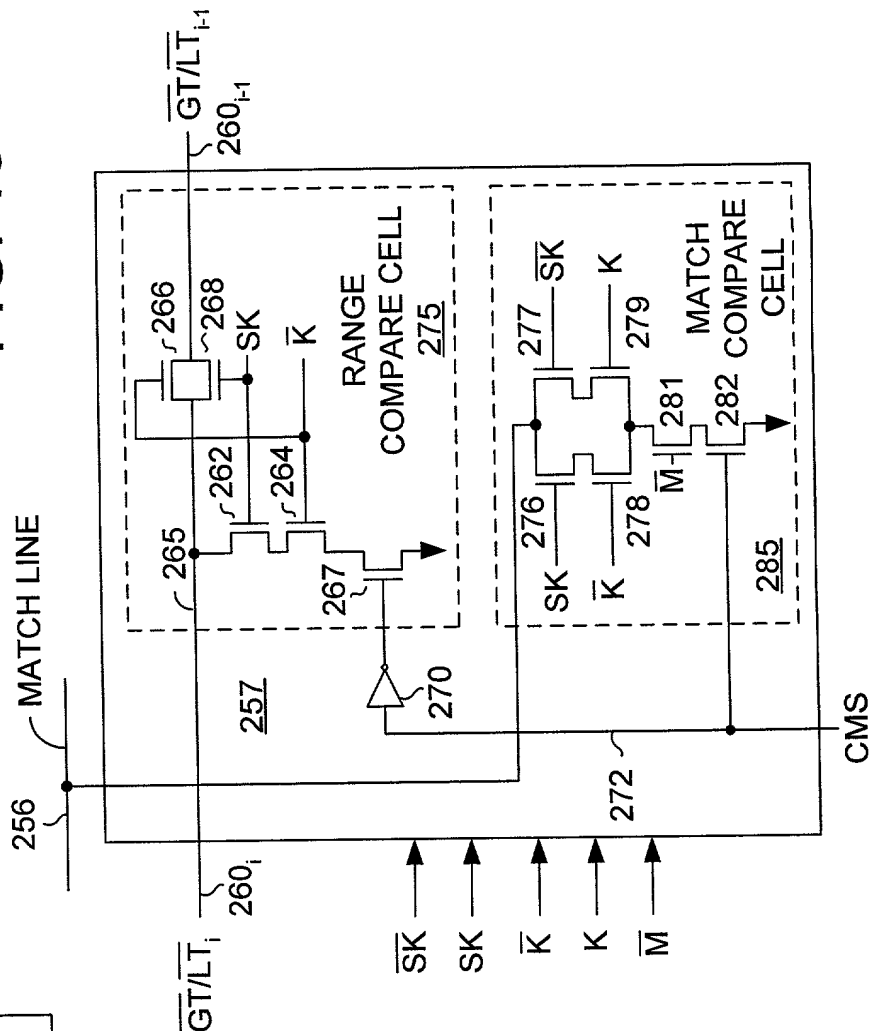
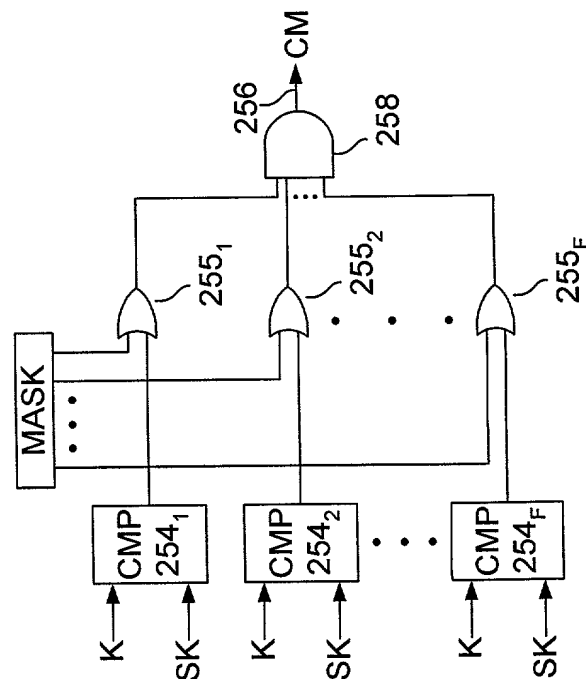


FIG. 11



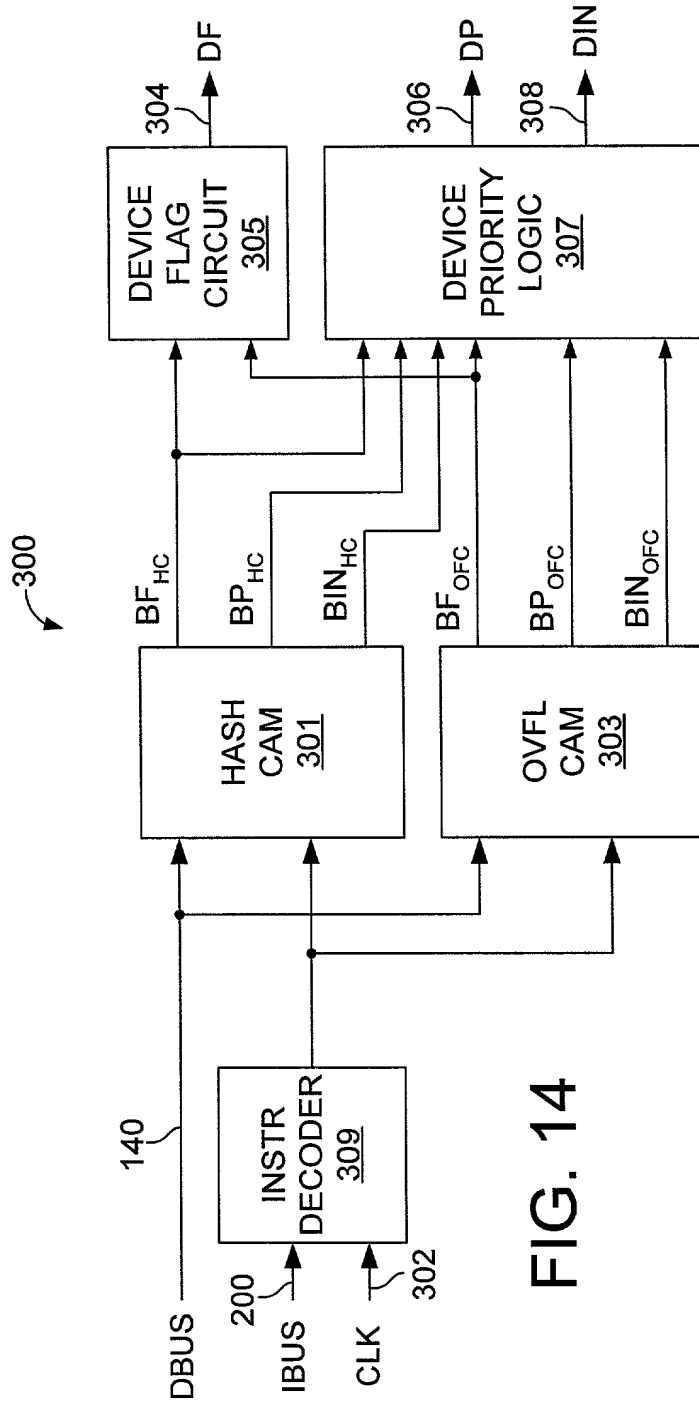


FIG. 14

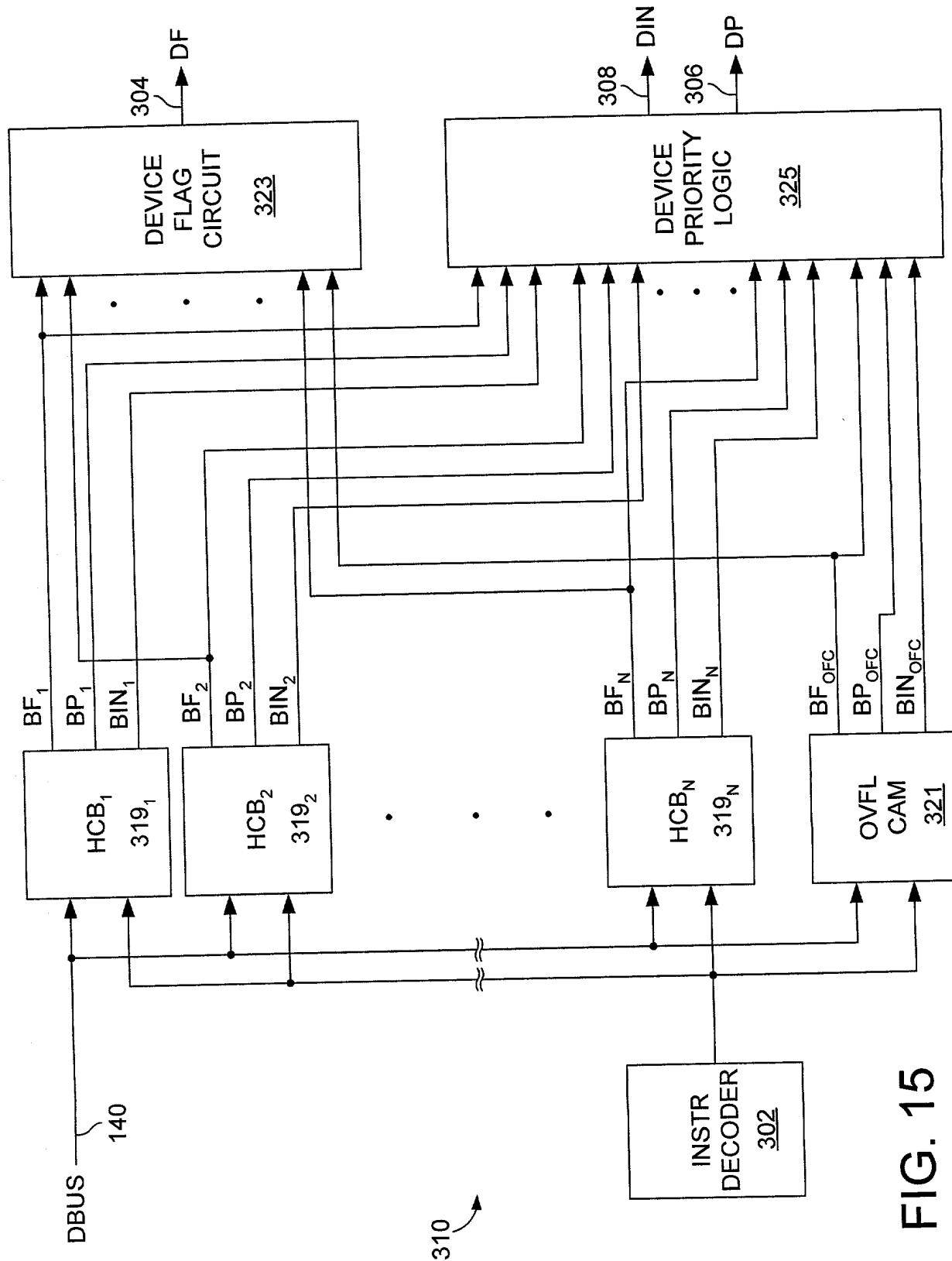


FIG. 15

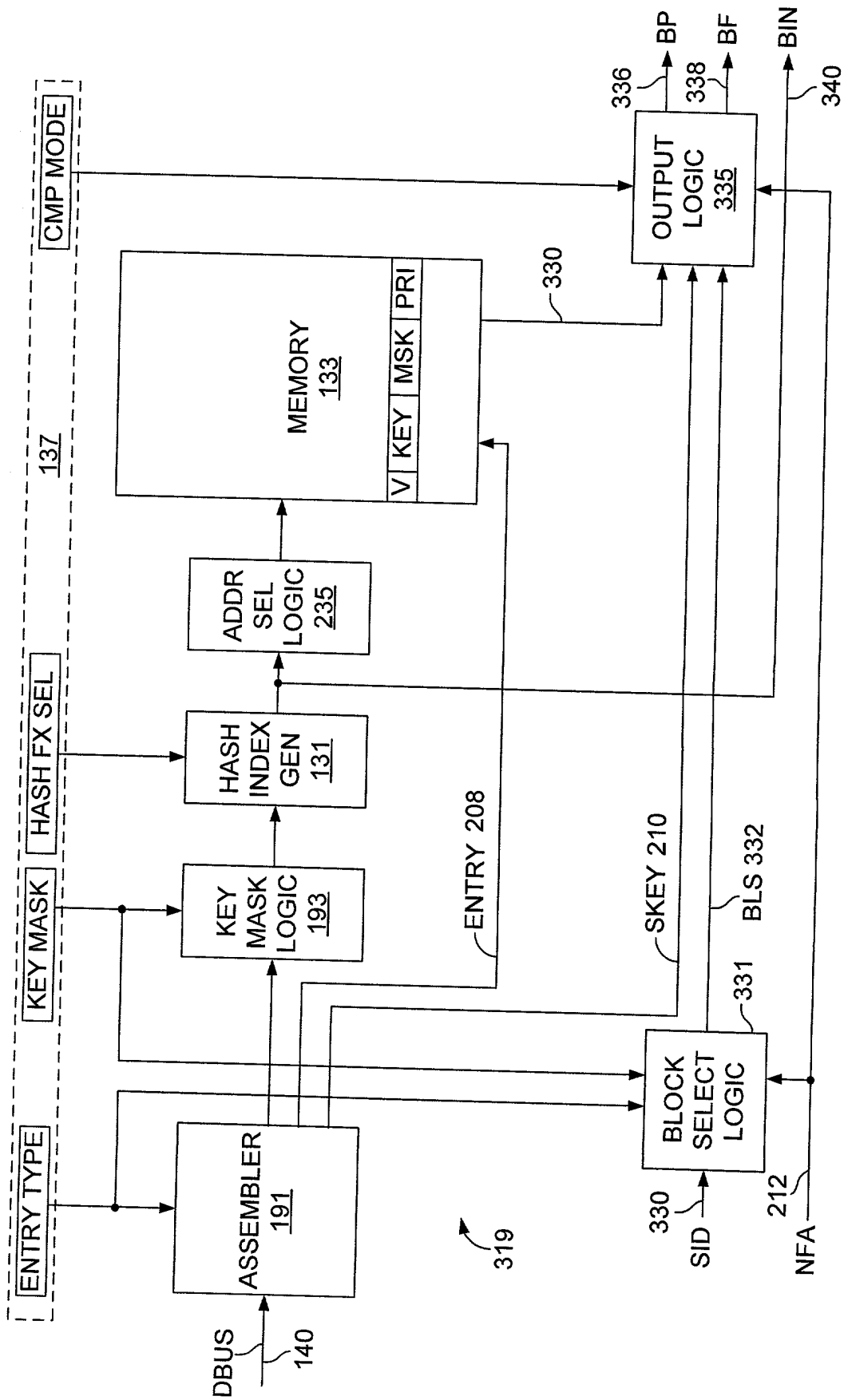
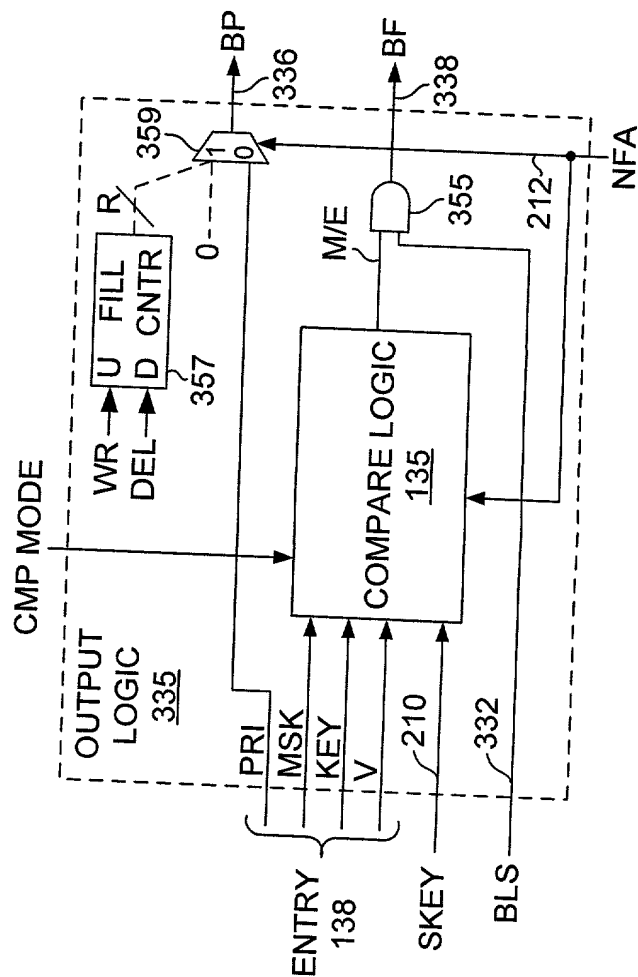
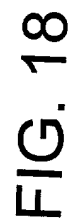
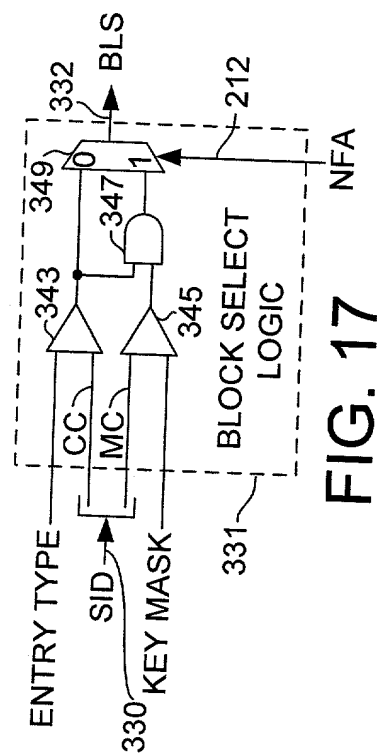


FIG. 16



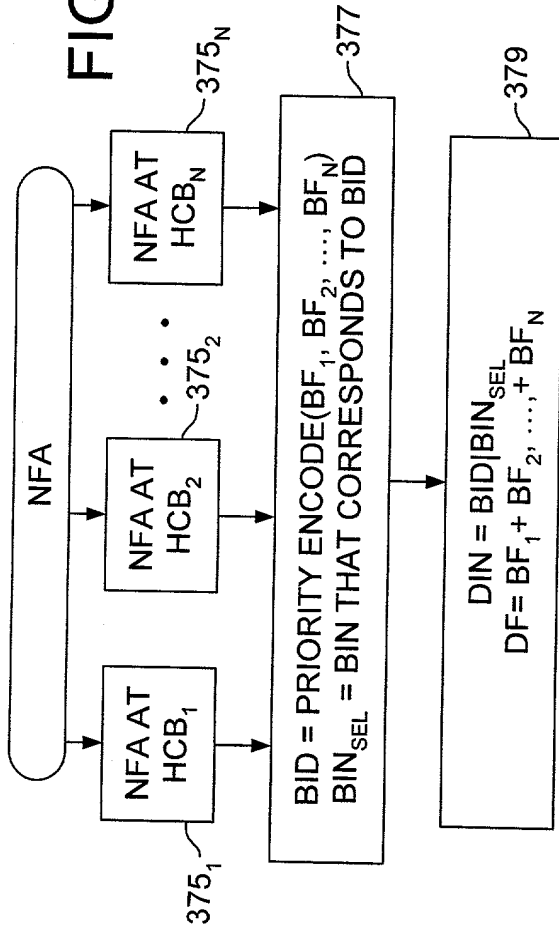


FIG. 20

FIG. 21

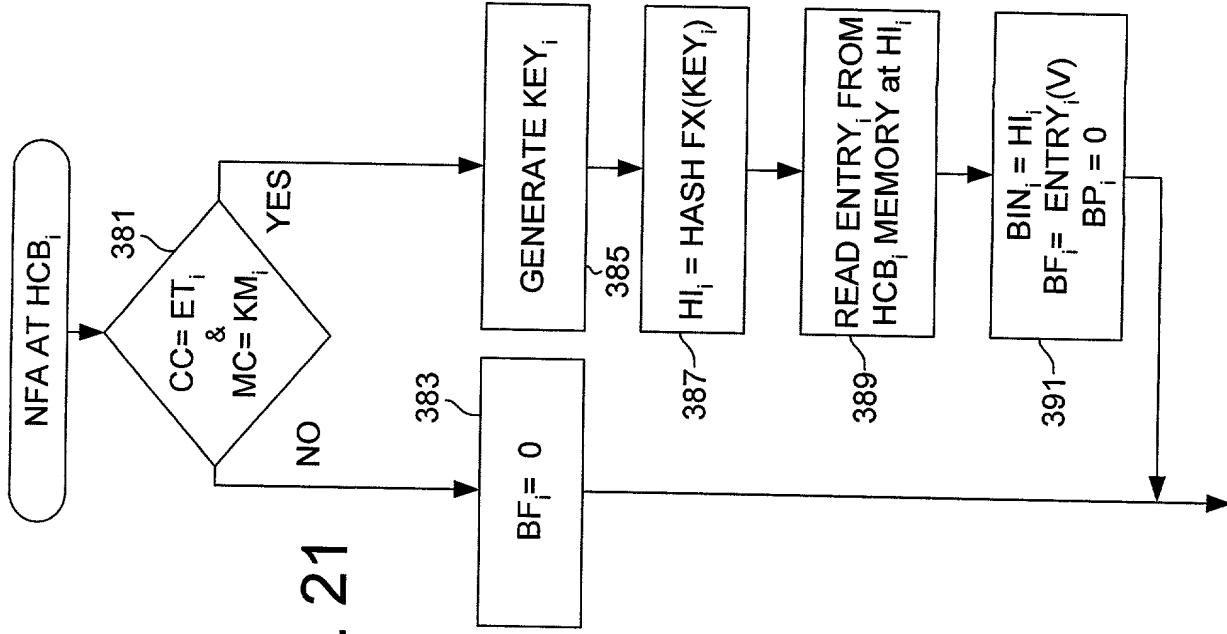
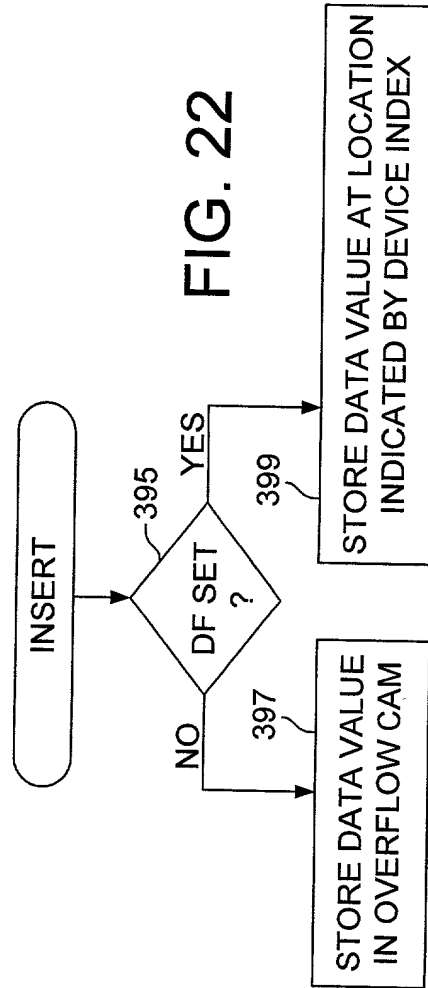


FIG. 22



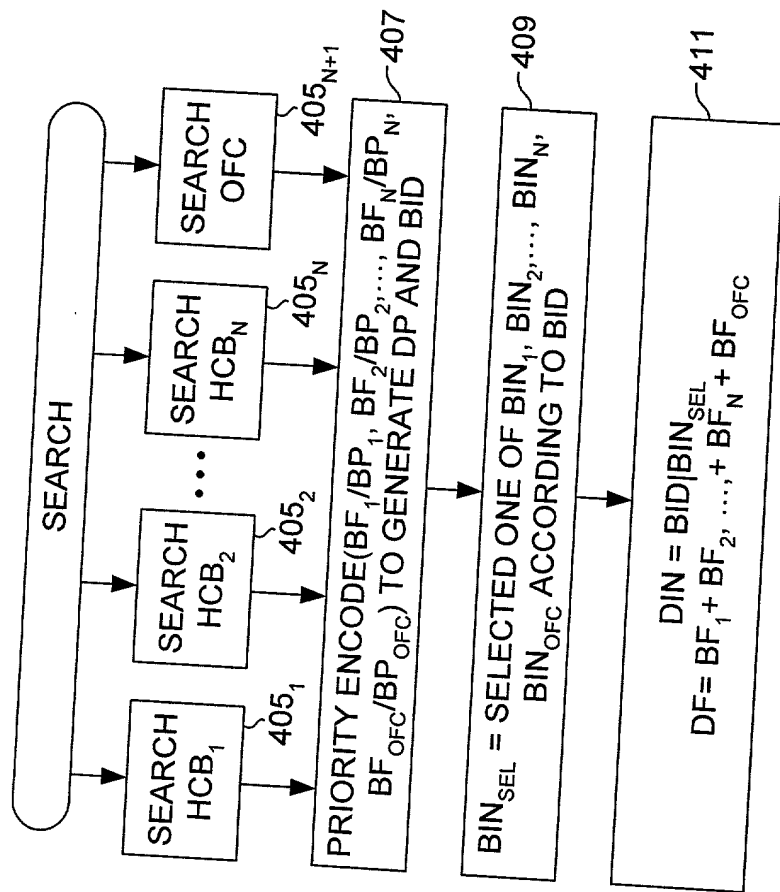


FIG. 23

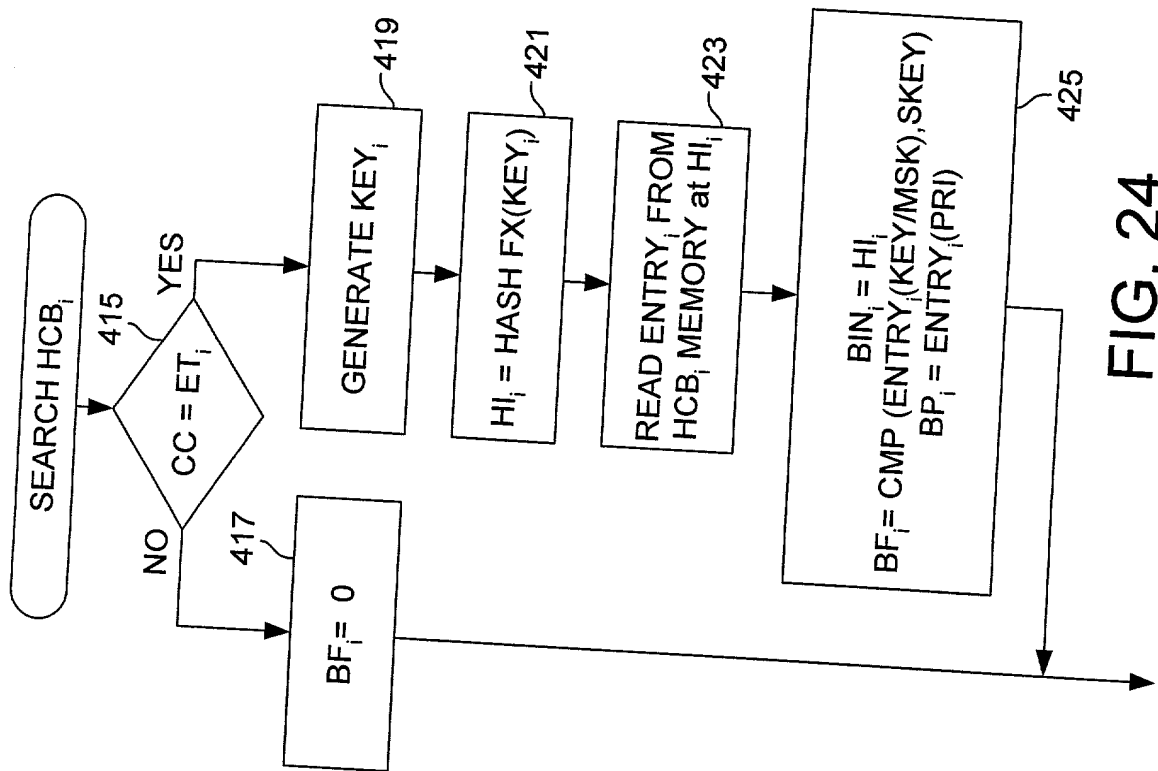


FIG. 24

429

MKEY
10223

HASH
FX 1
431

340

430
HCB₁
319₁

HCB₂
319₂

HCB₃
319₃

HCB₄
319₄

341

HASH
FX 2
433

FIG. 25

429

MKEY
4555

HASH
FX 1
431

340

430
HCB₁
319₁

430
HCB₂
319₂

430
HCB₃
319₃

430
HCB₄
319₄

341

HASH
FX 2
433

FIG. 26

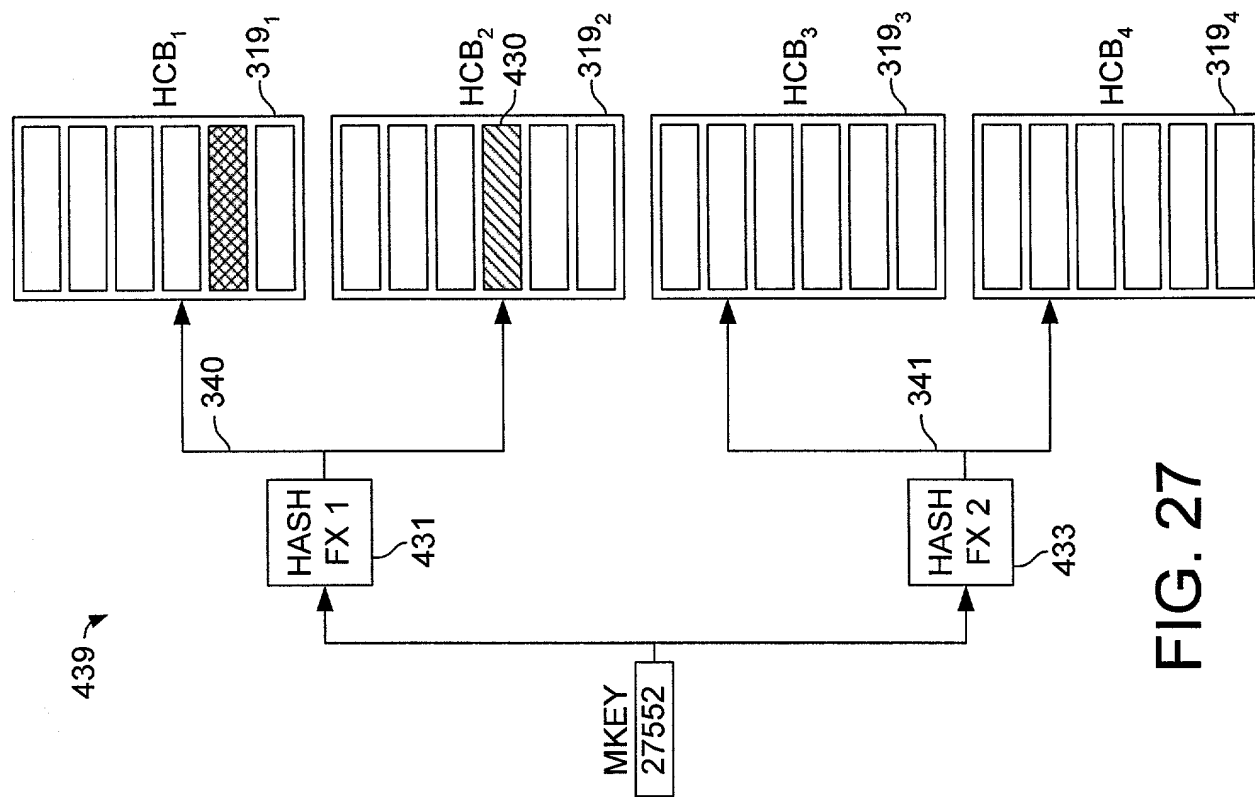


FIG. 27

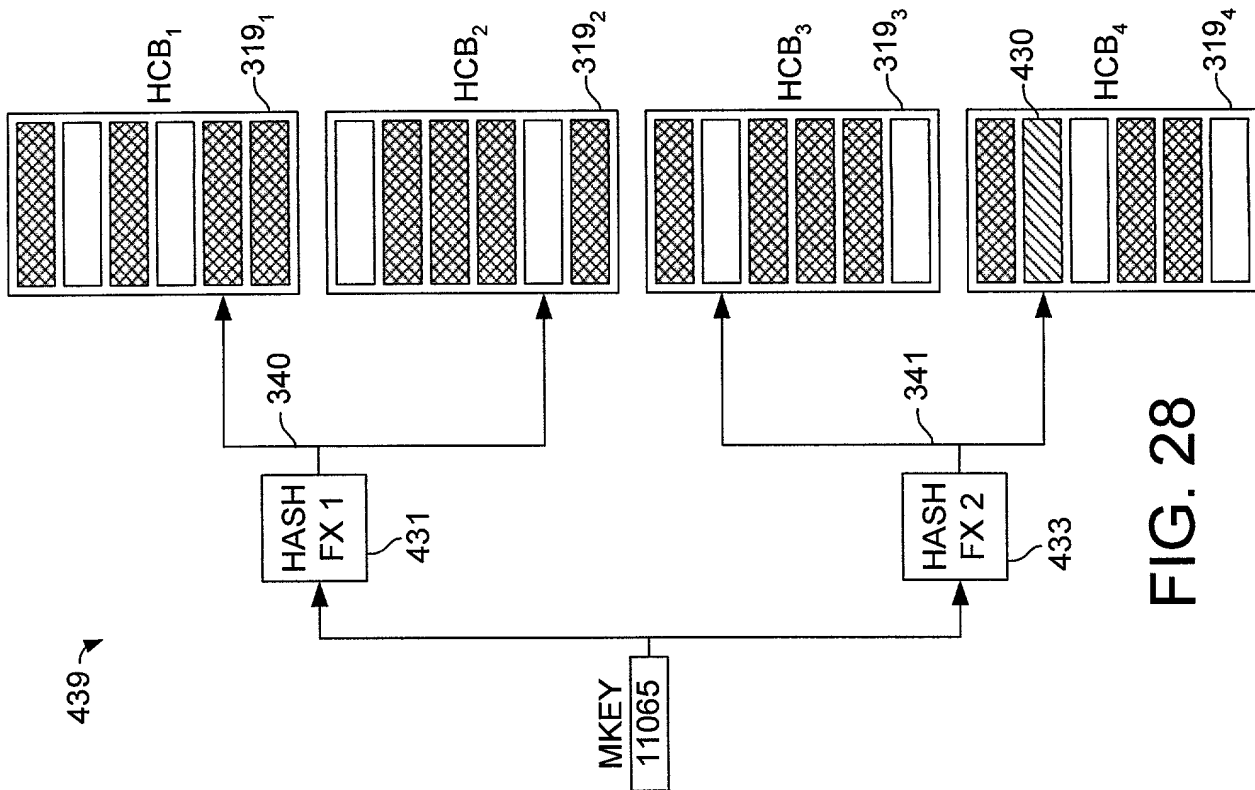
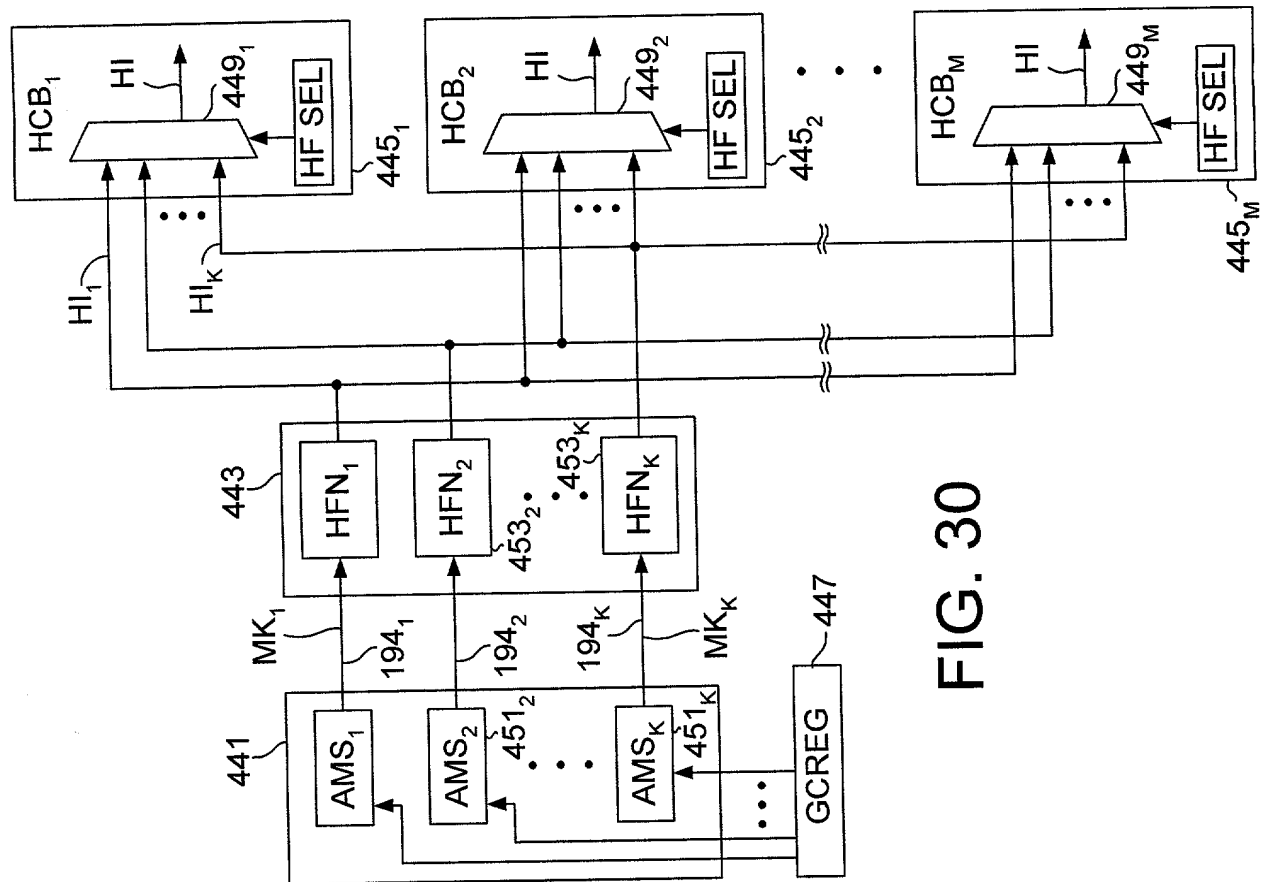
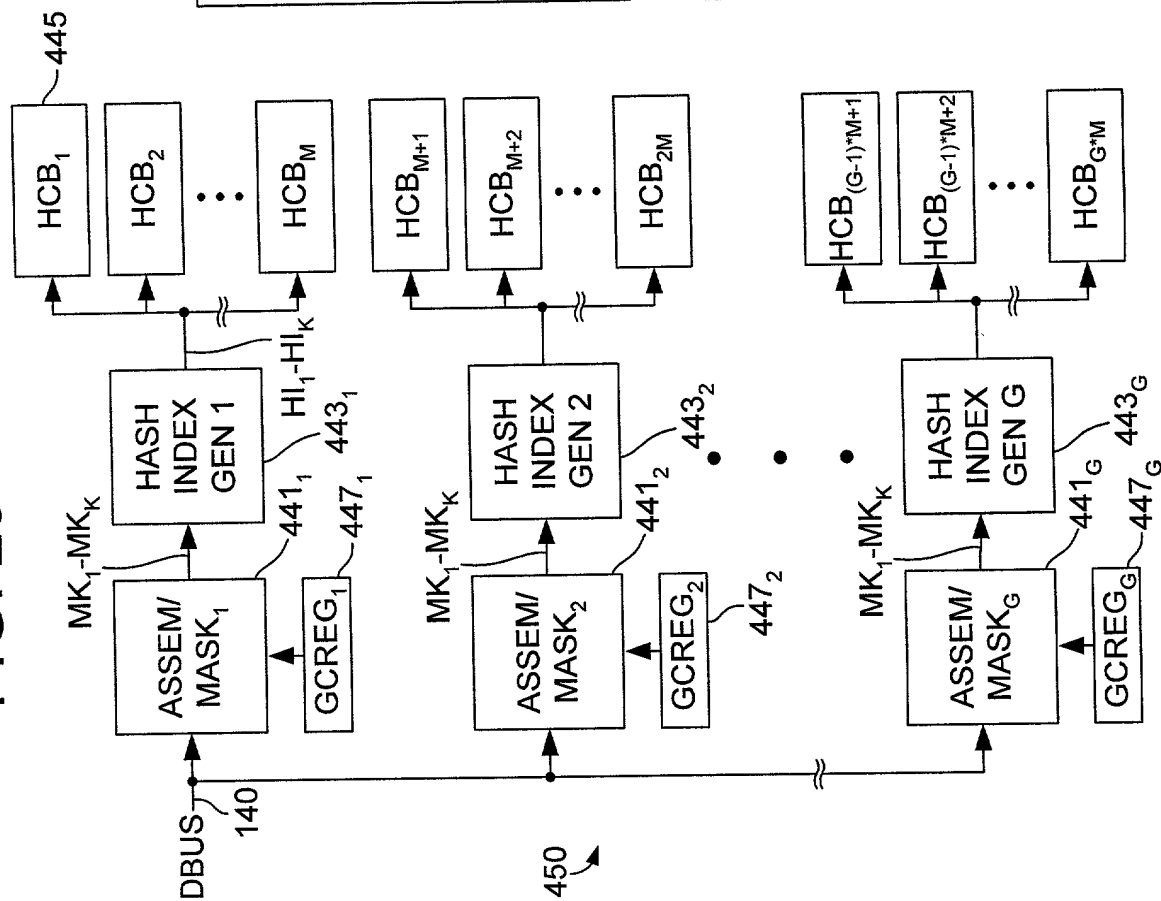


FIG. 28



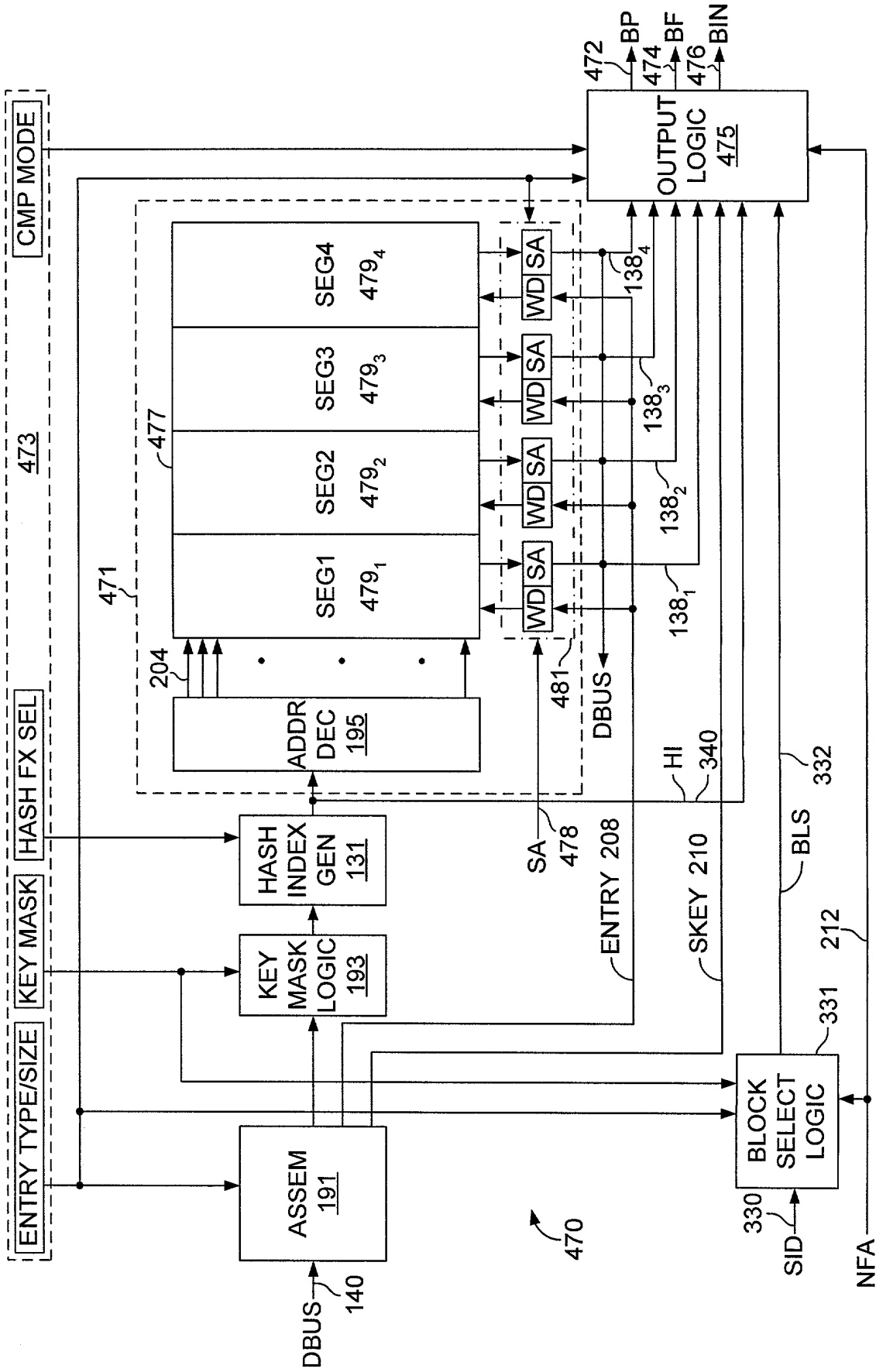
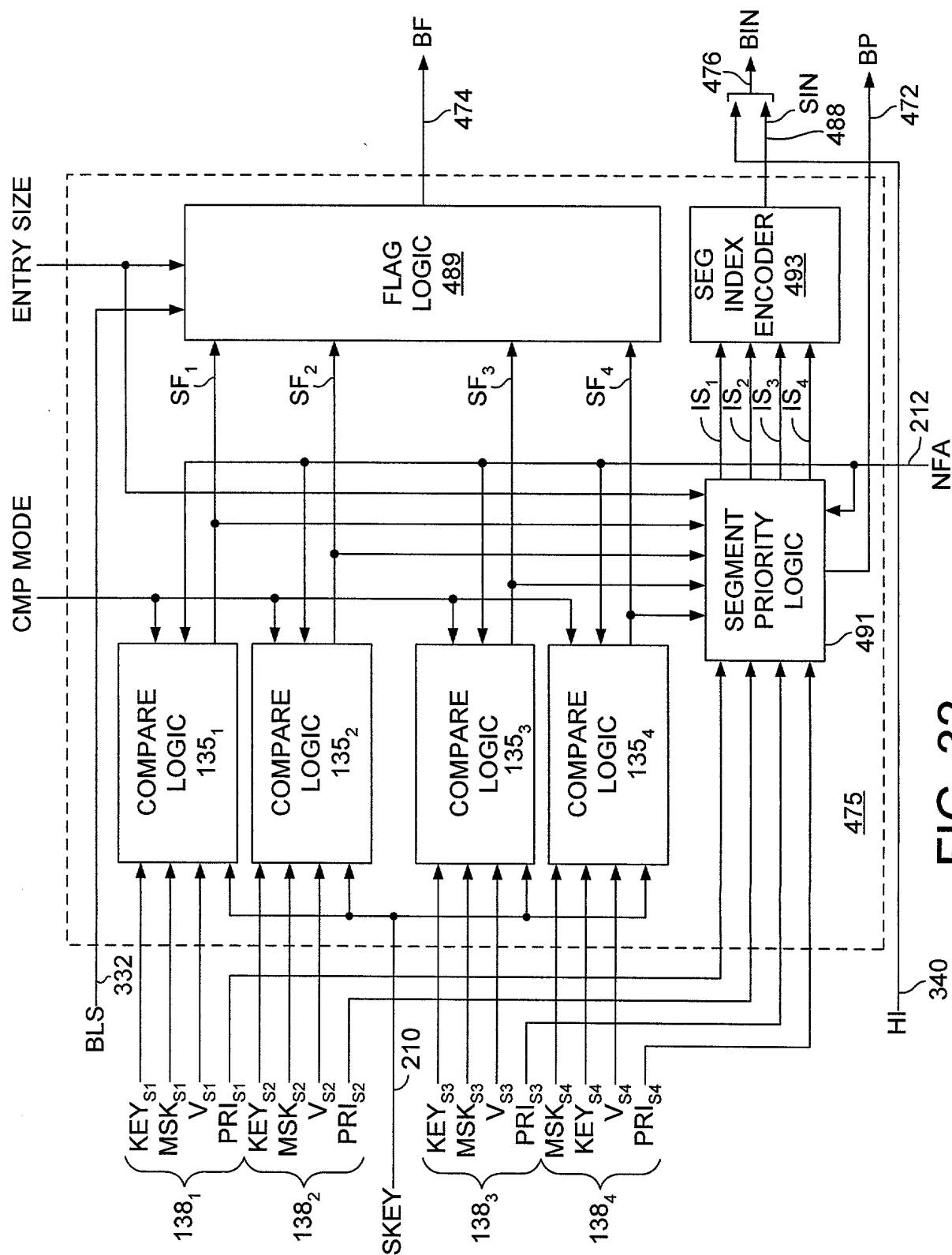
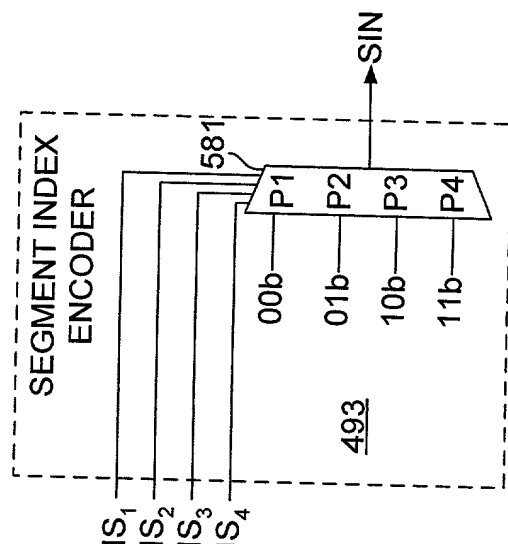
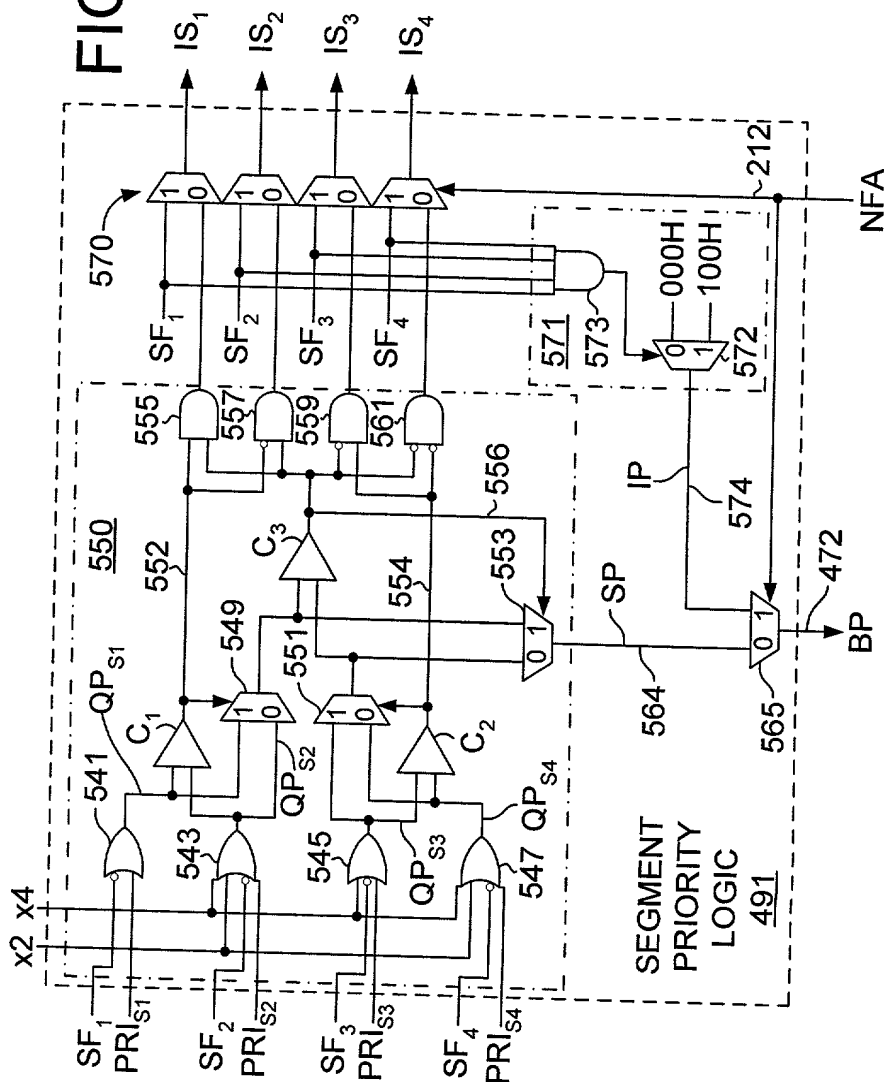
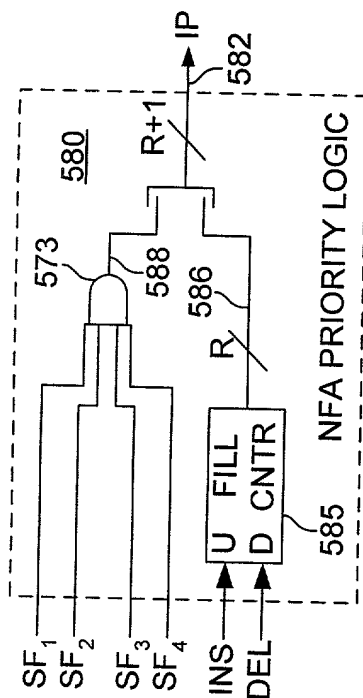


FIG. 31





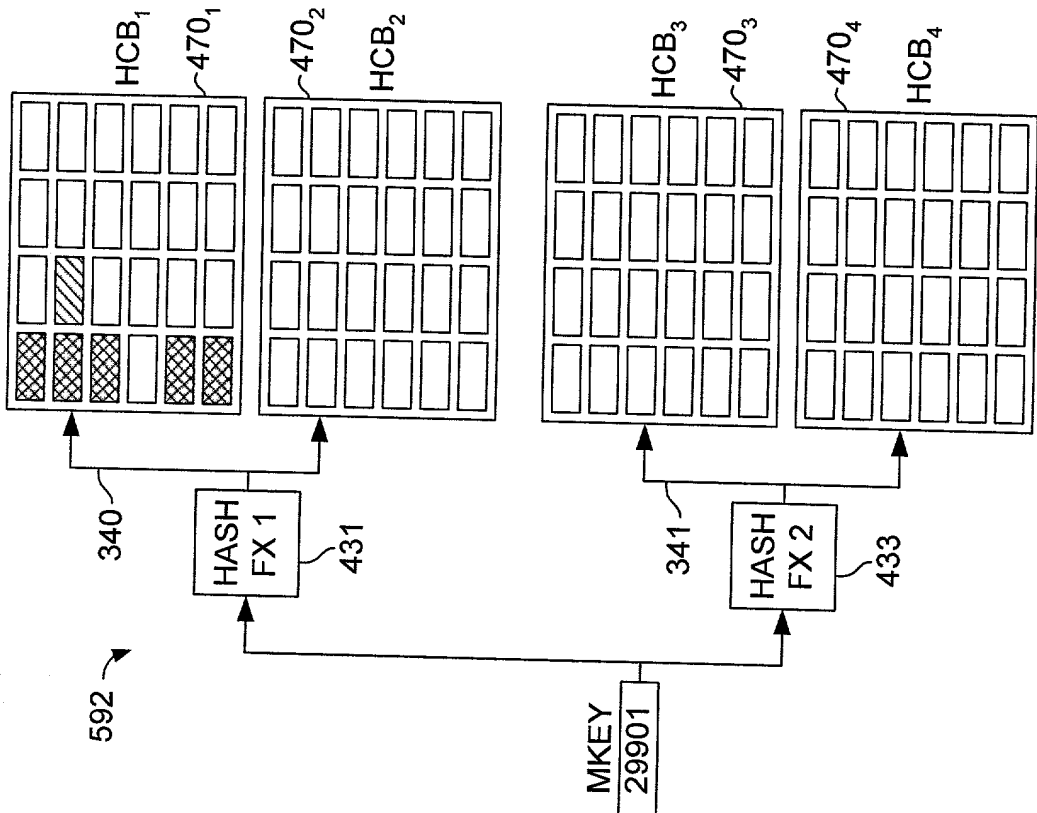


FIG. 37

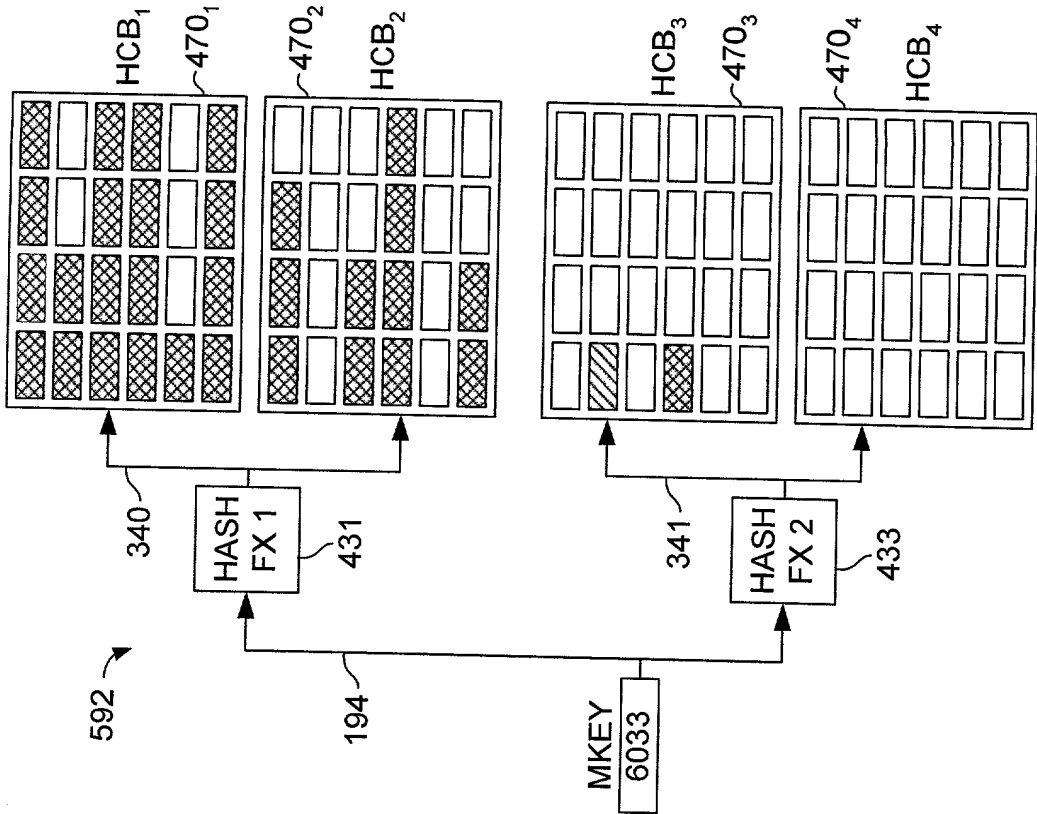


FIG. 38

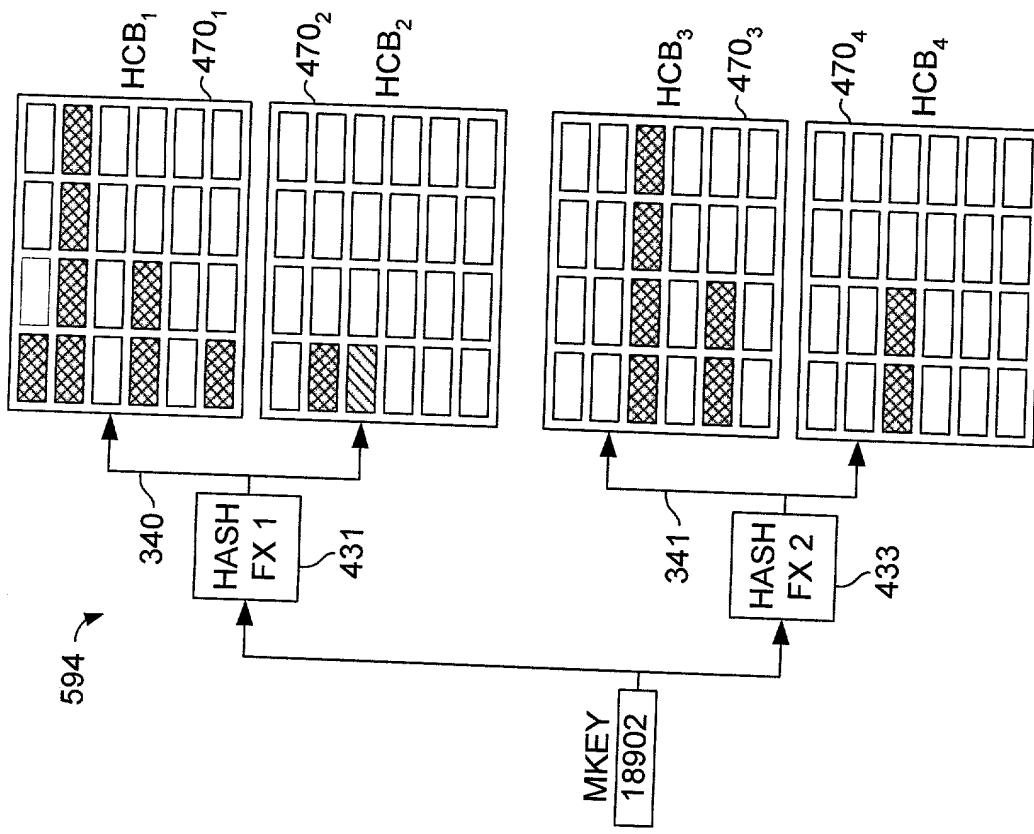


FIG. 39

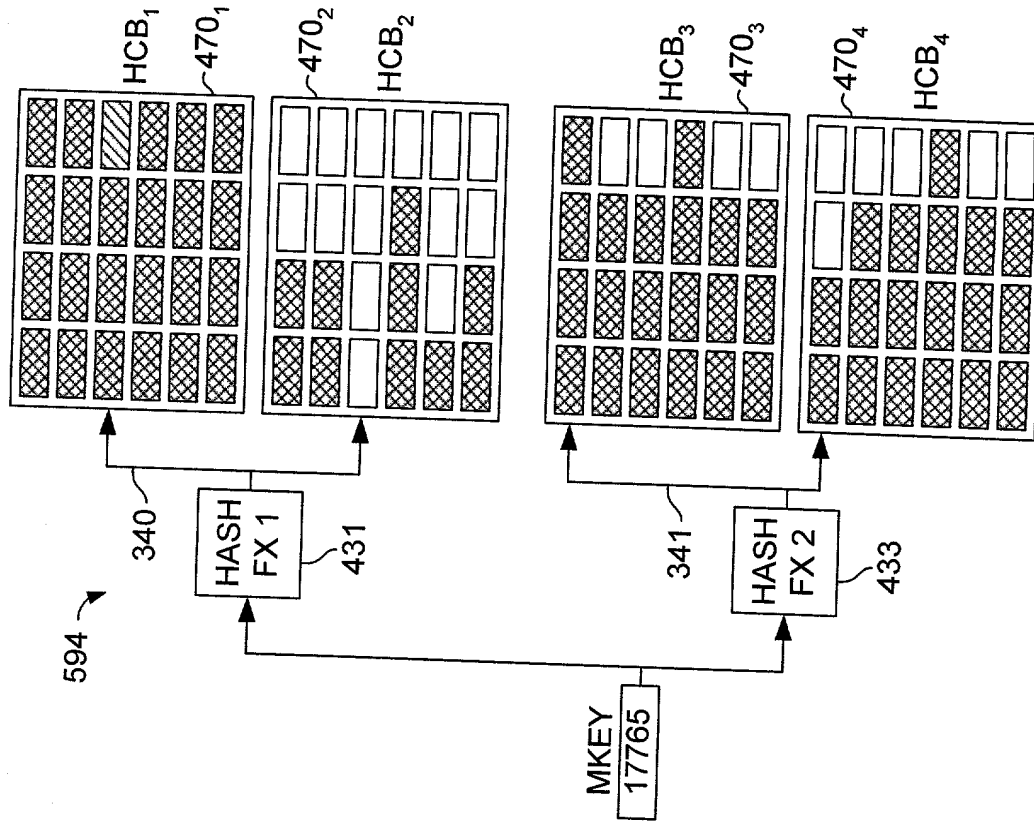


FIG. 40

FIG. 41

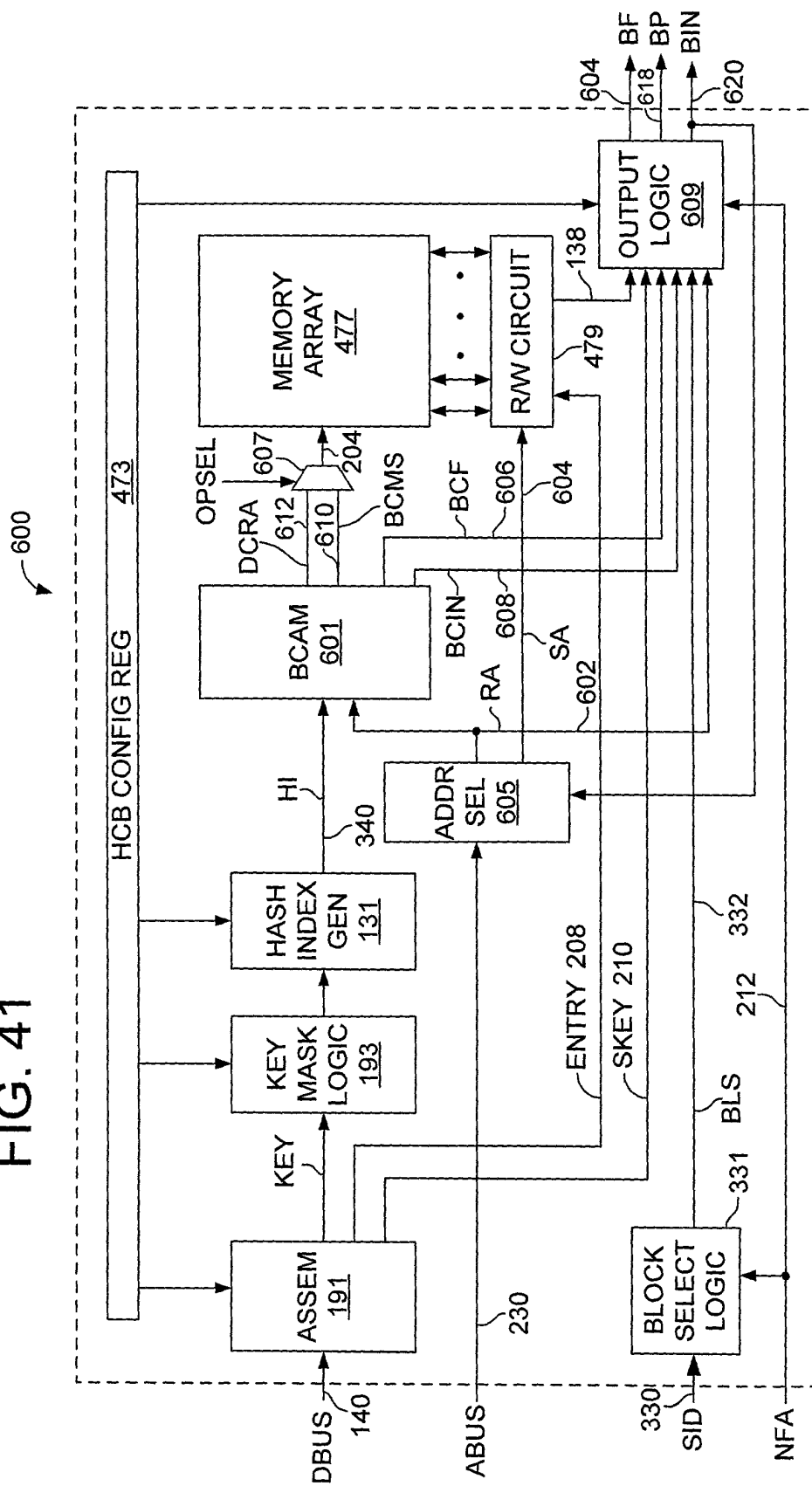
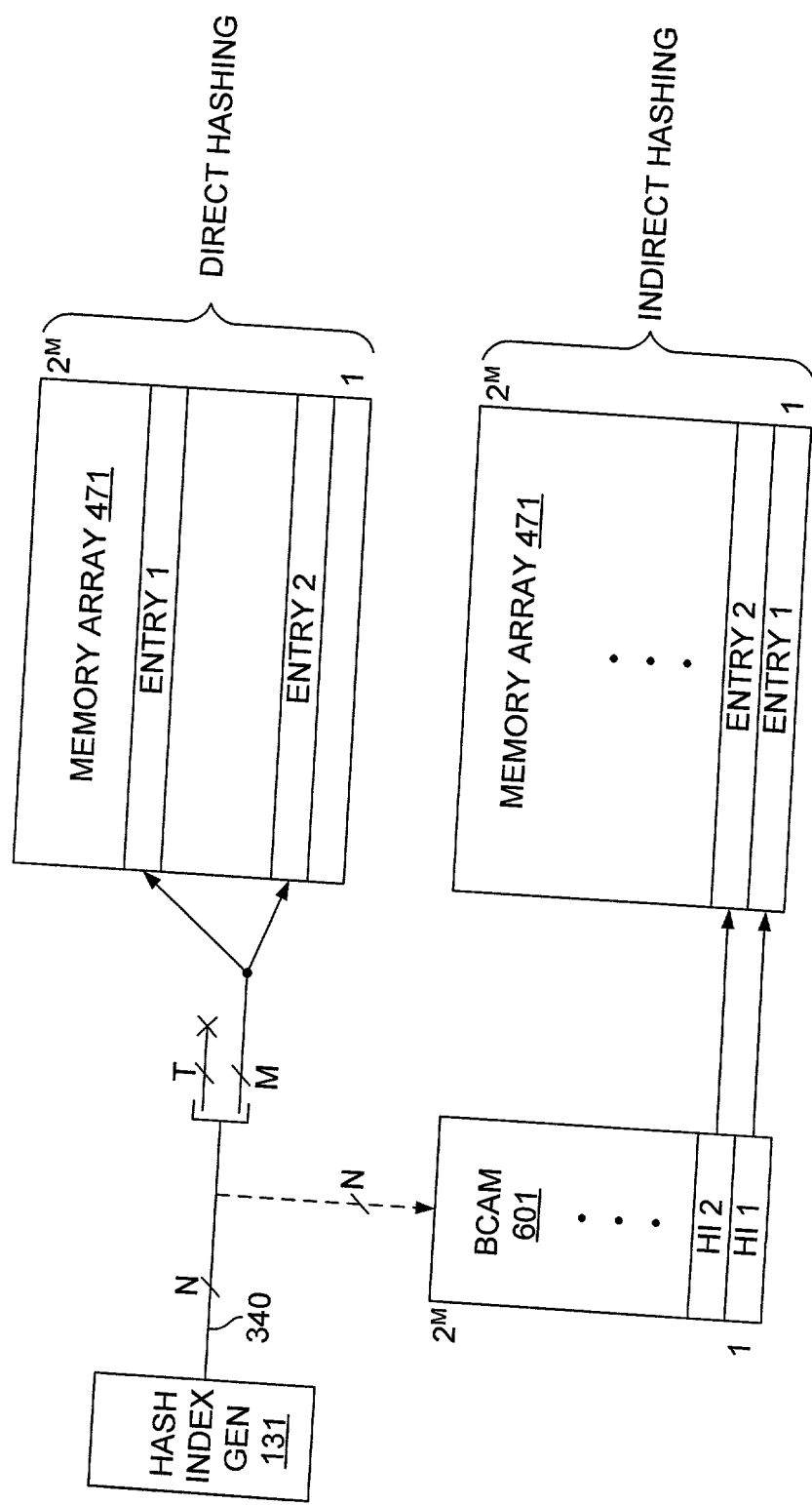


FIG. 42



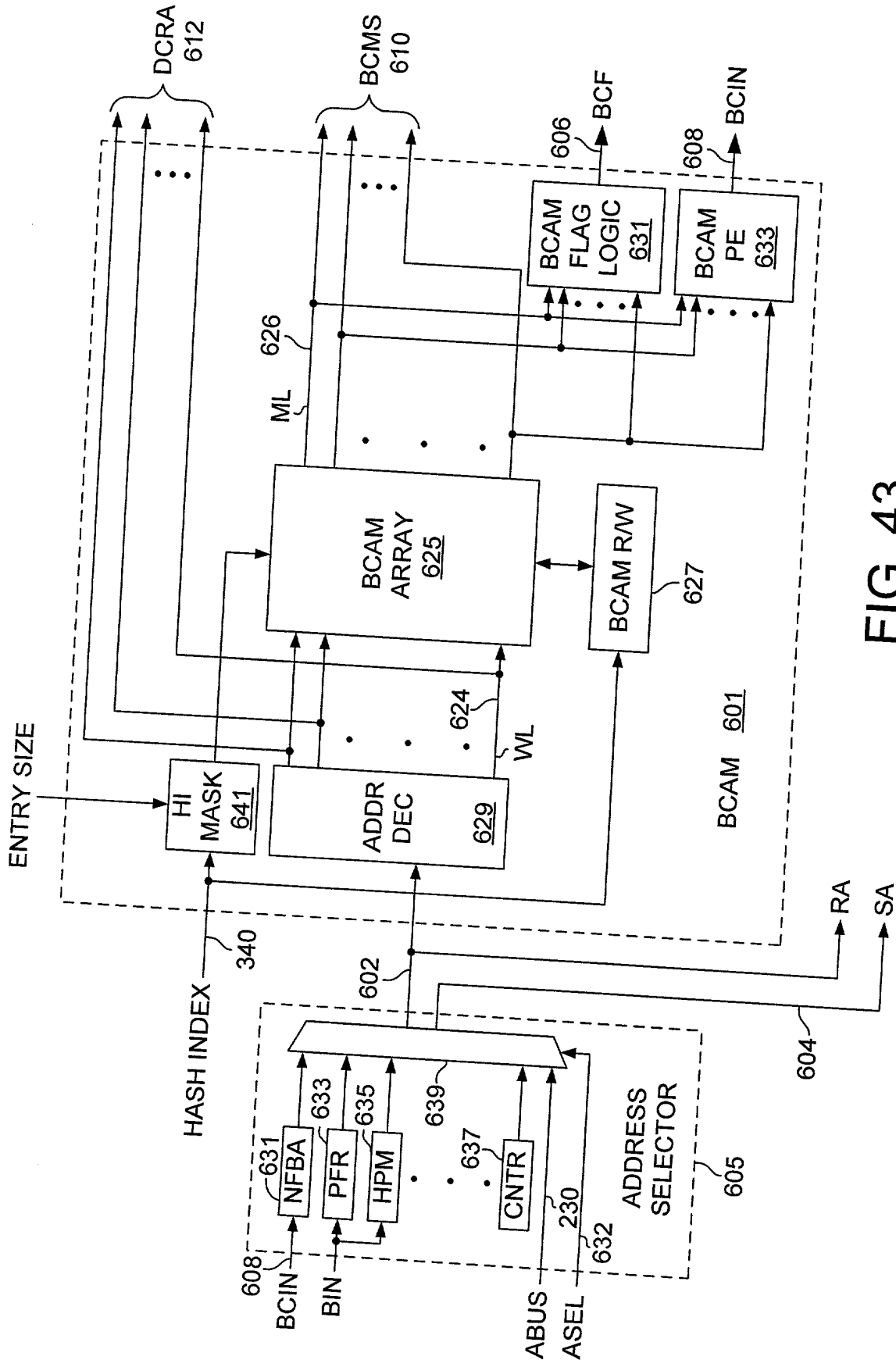
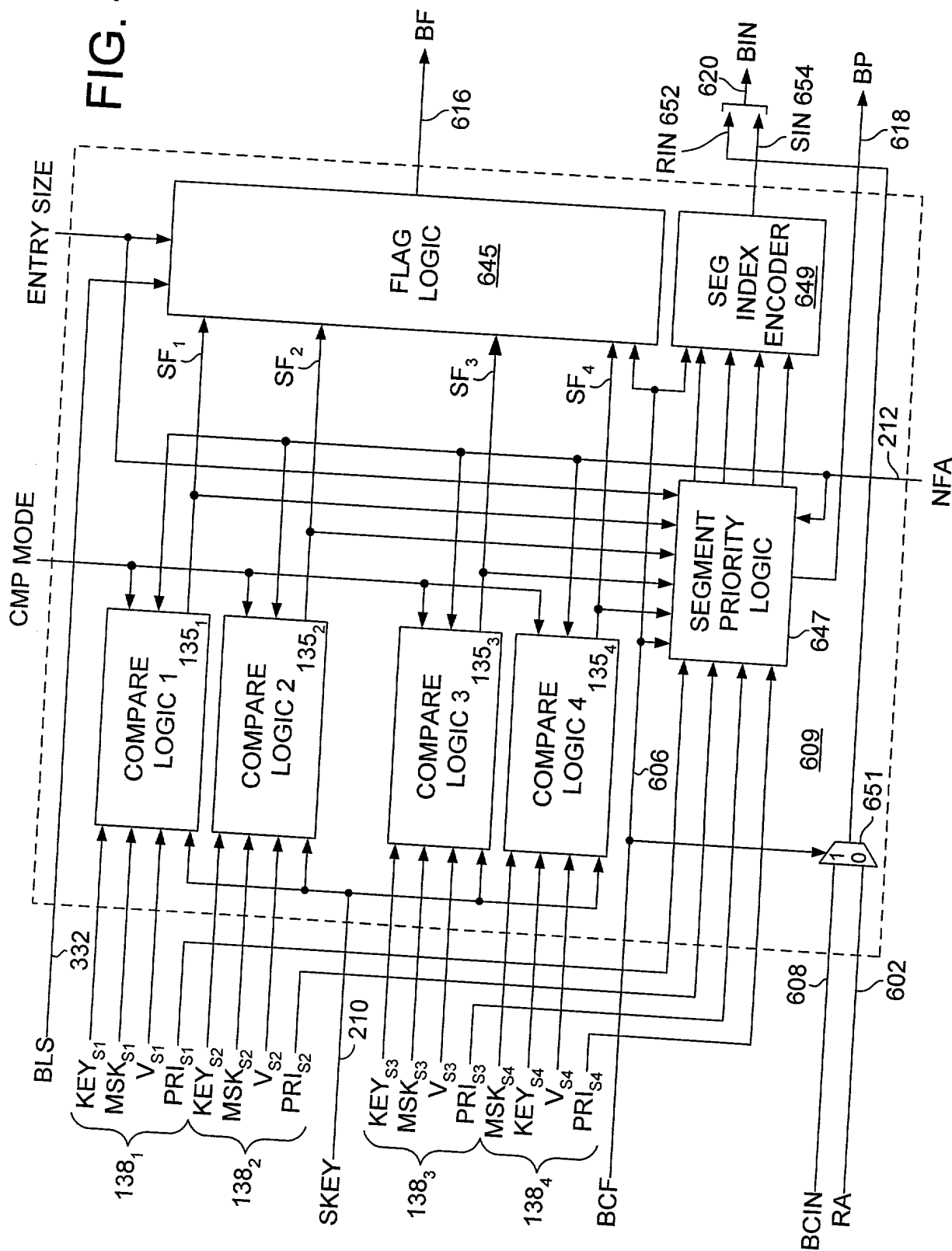


FIG. 43

FIG. 44



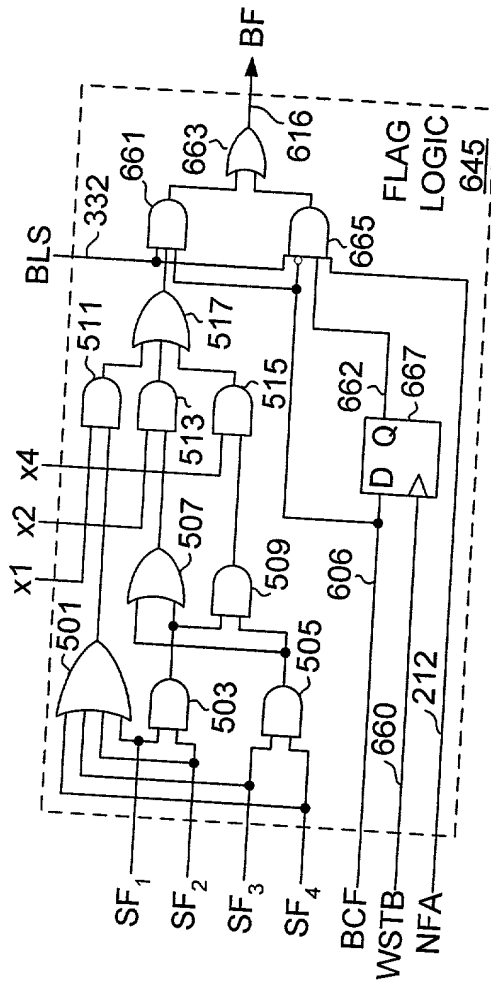


FIG. 45

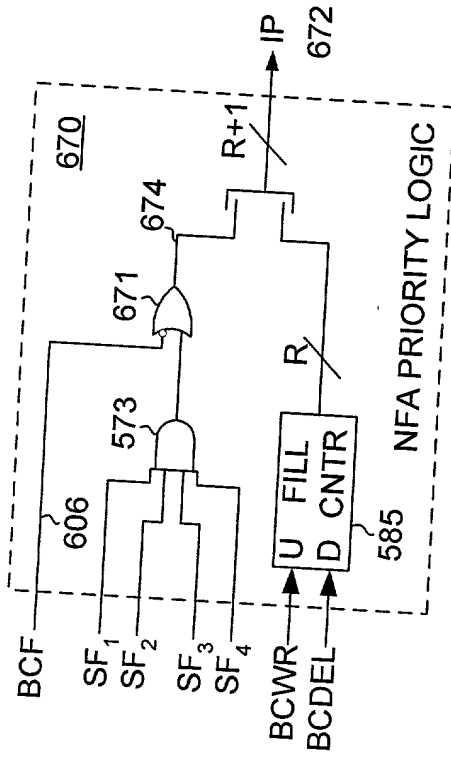


FIG. 46

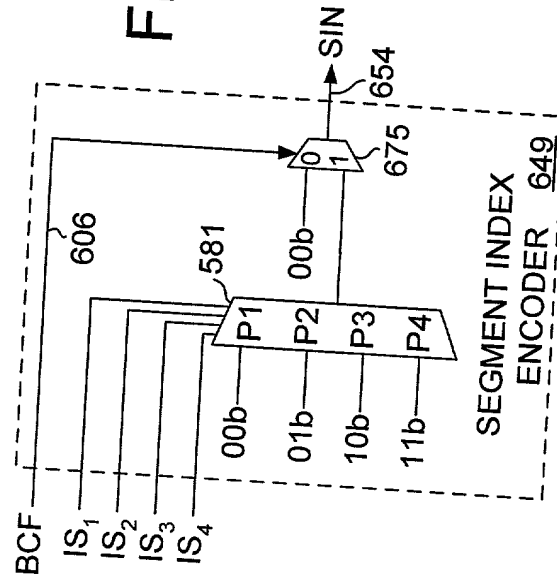


FIG. 47

FIG. 48

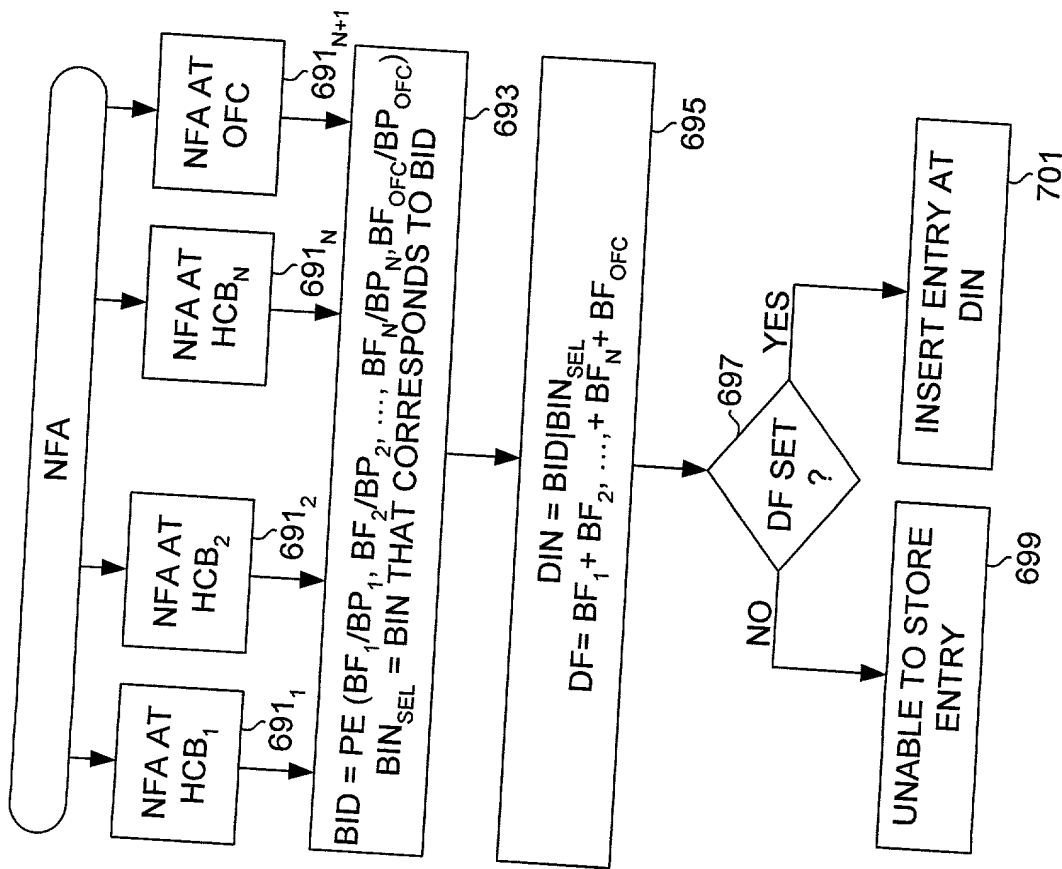
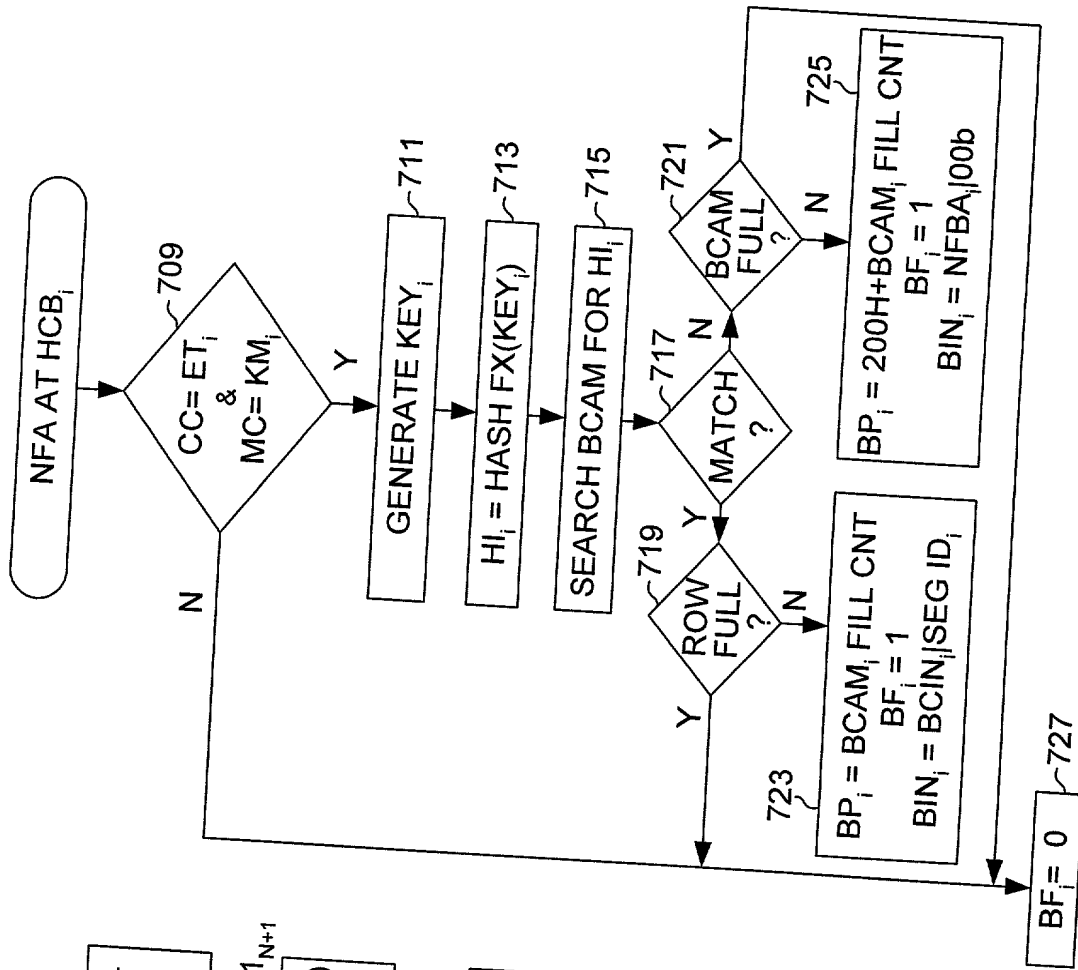


FIG. 49



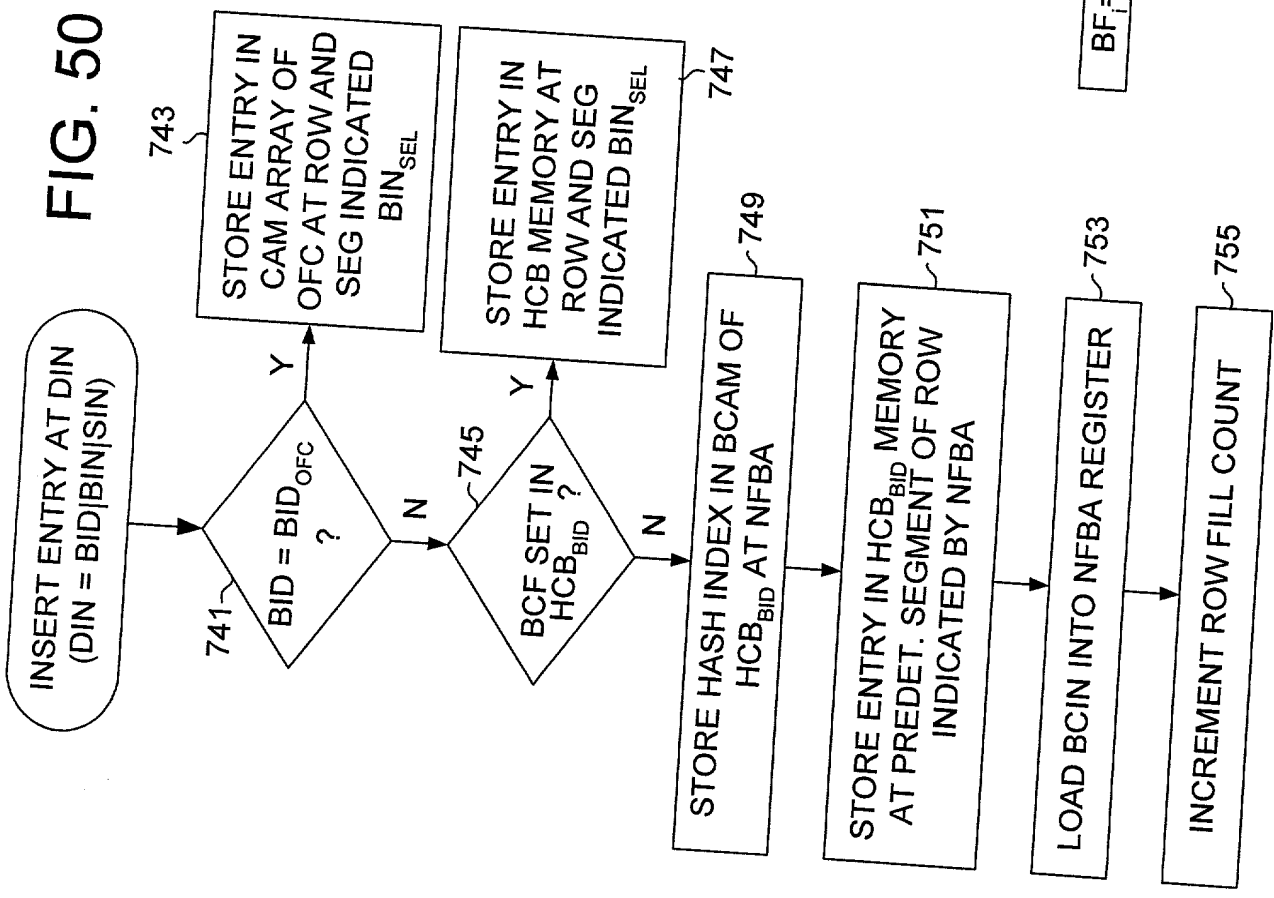


FIG. 50

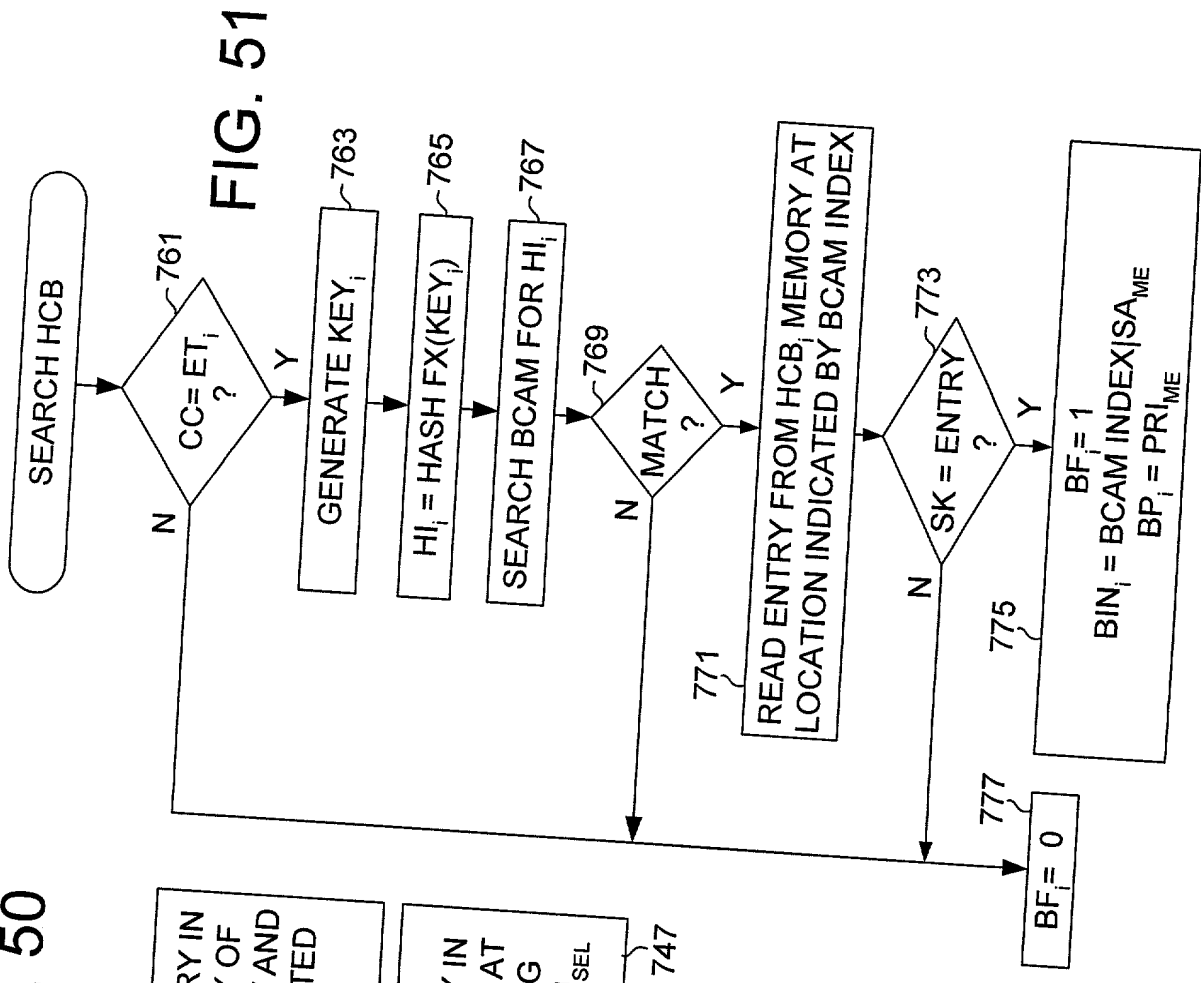


FIG. 51

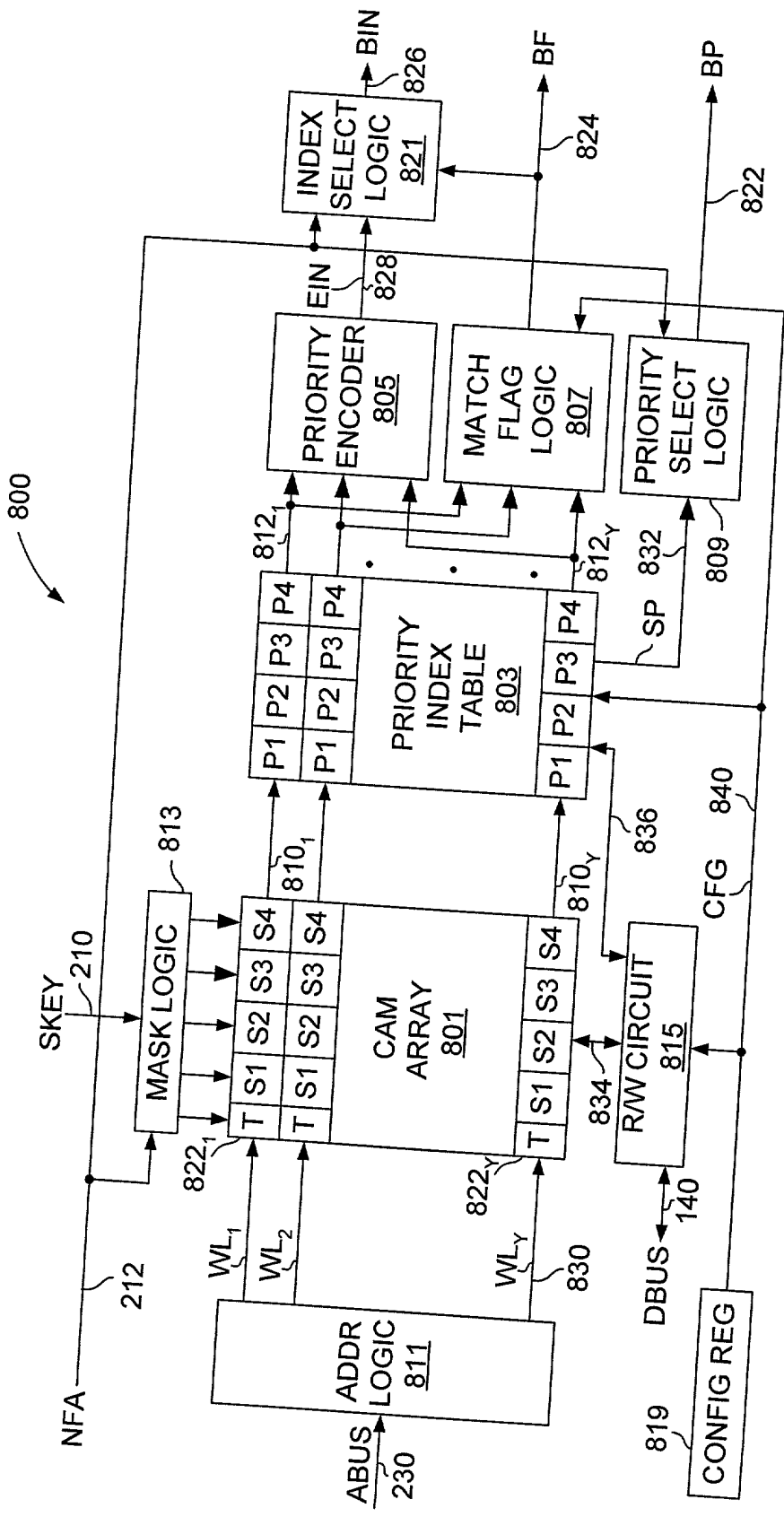


FIG. 52

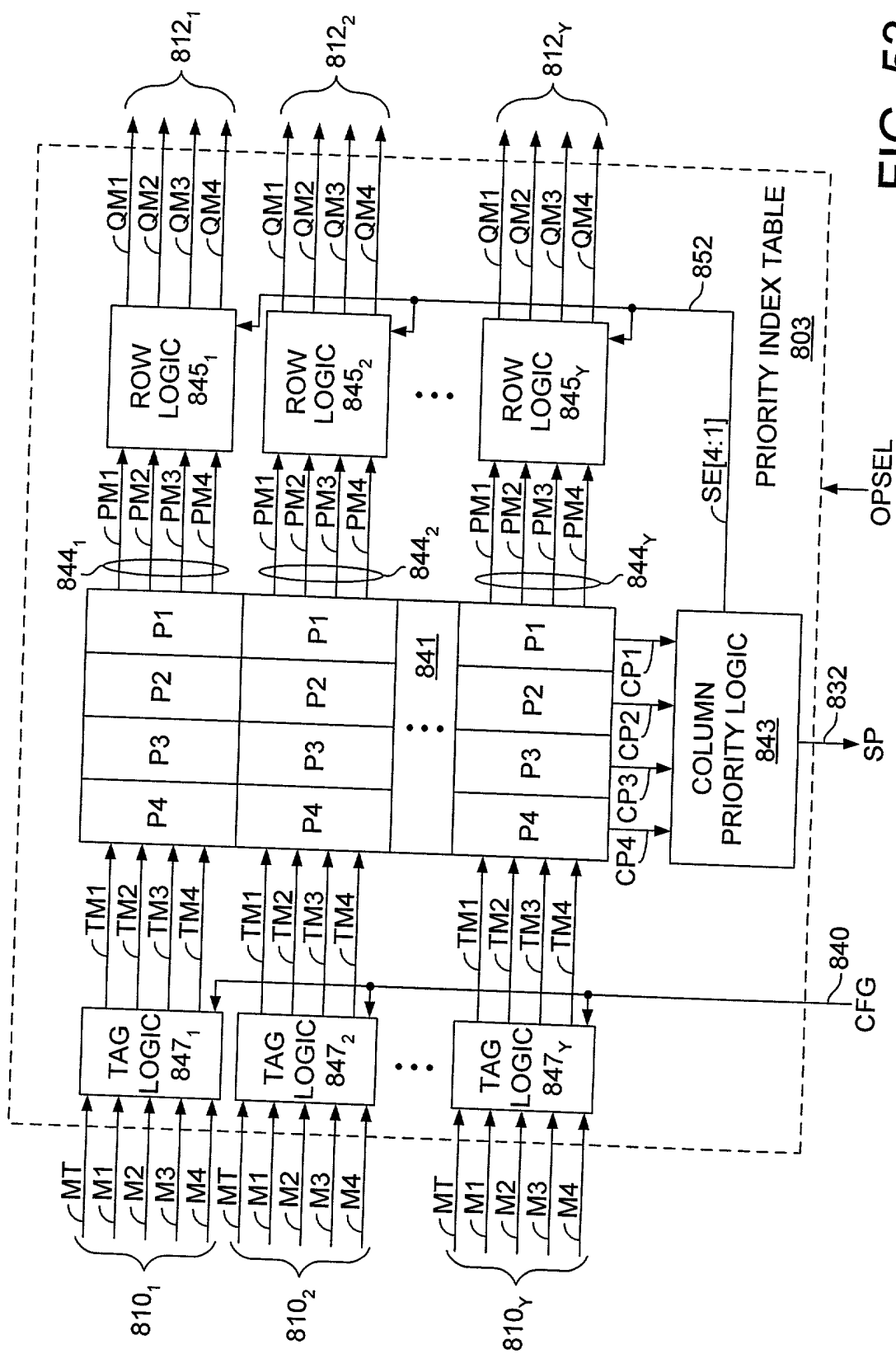


FIG. 53

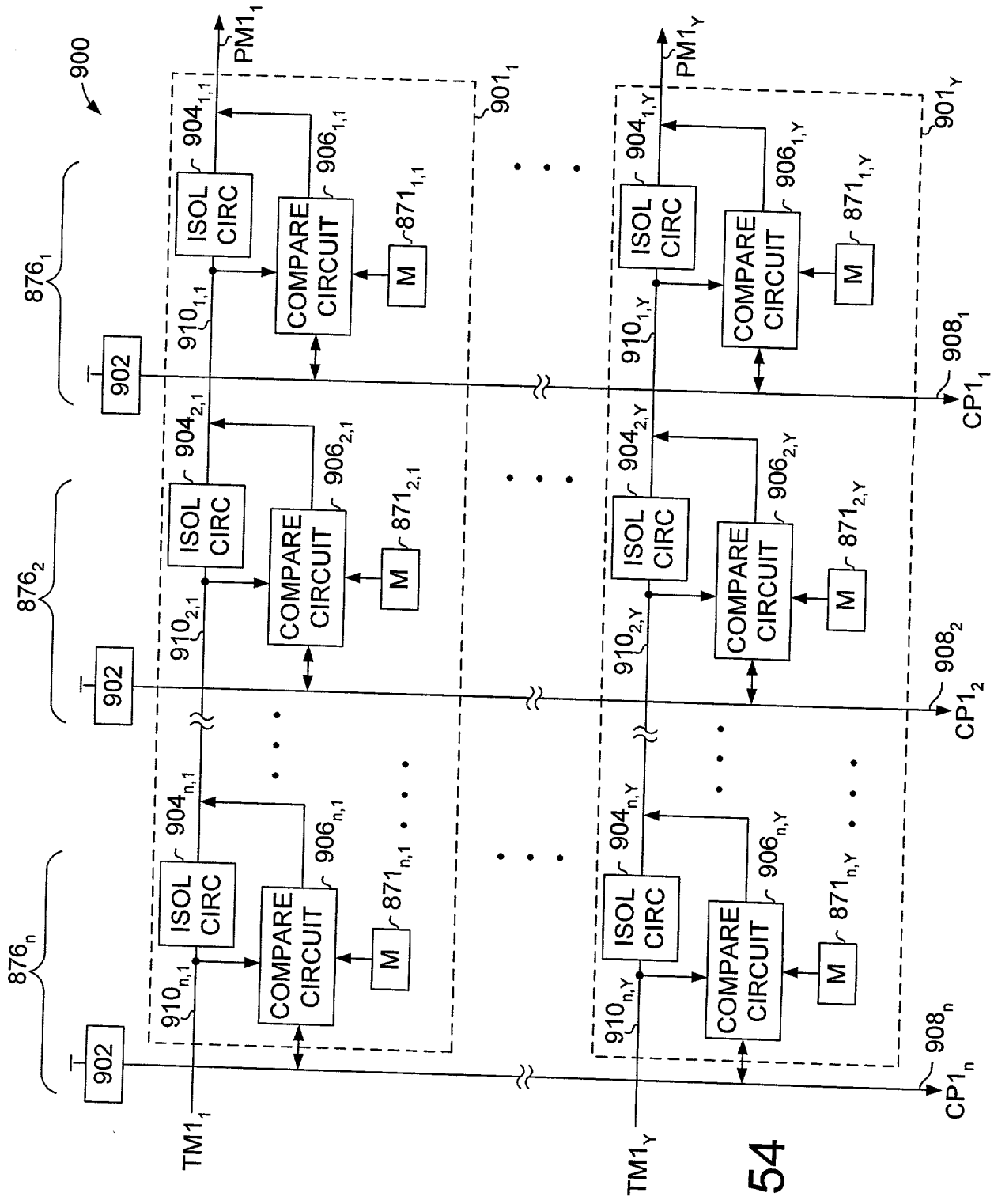


FIG. 54

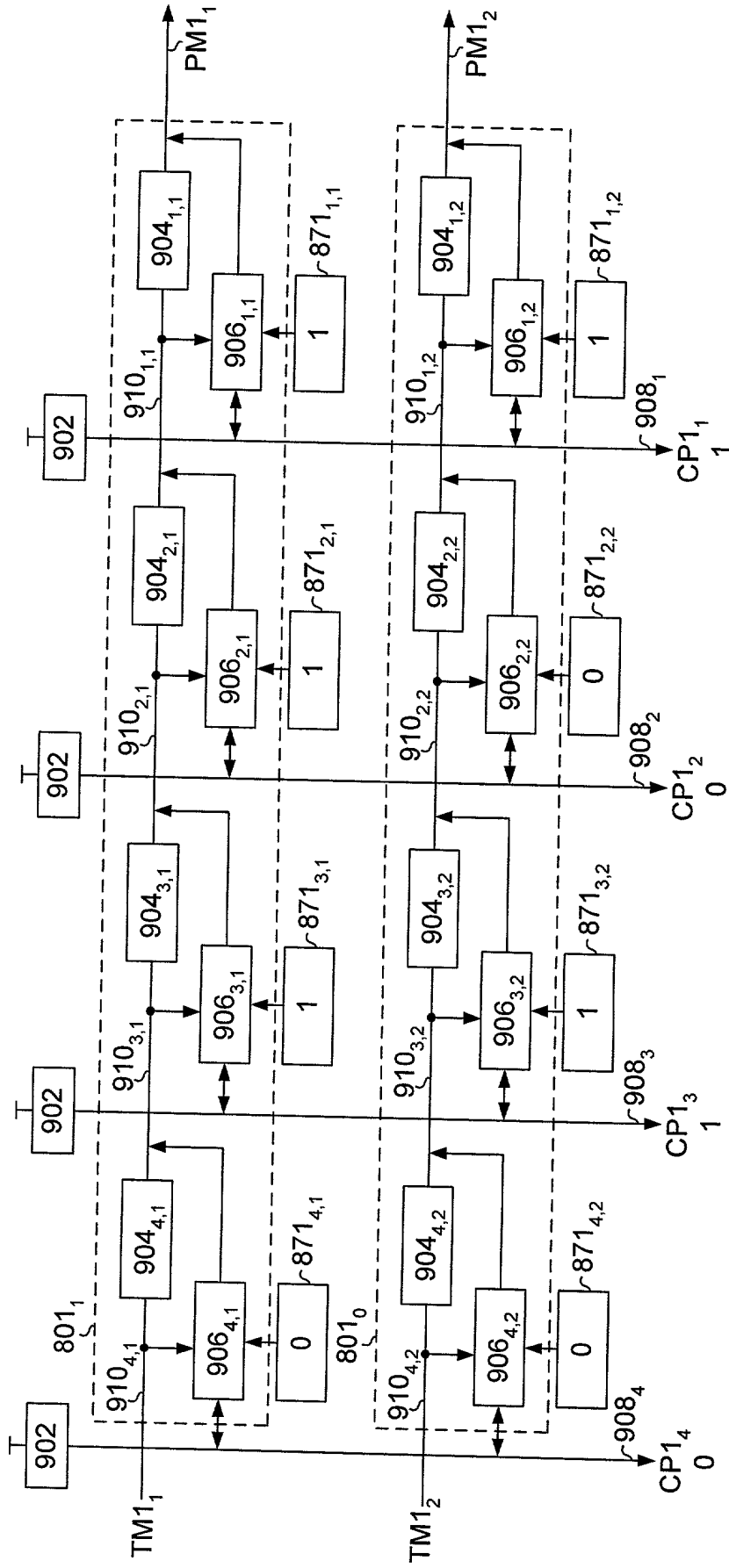


FIG. 55

FIG. 56

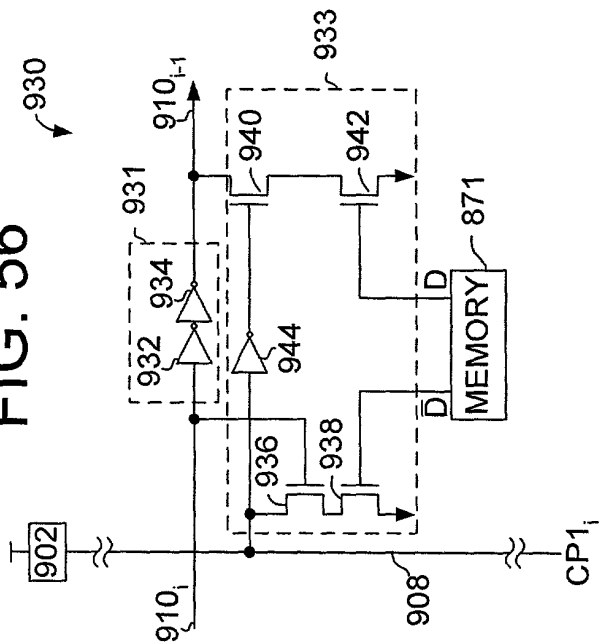


FIG. 57

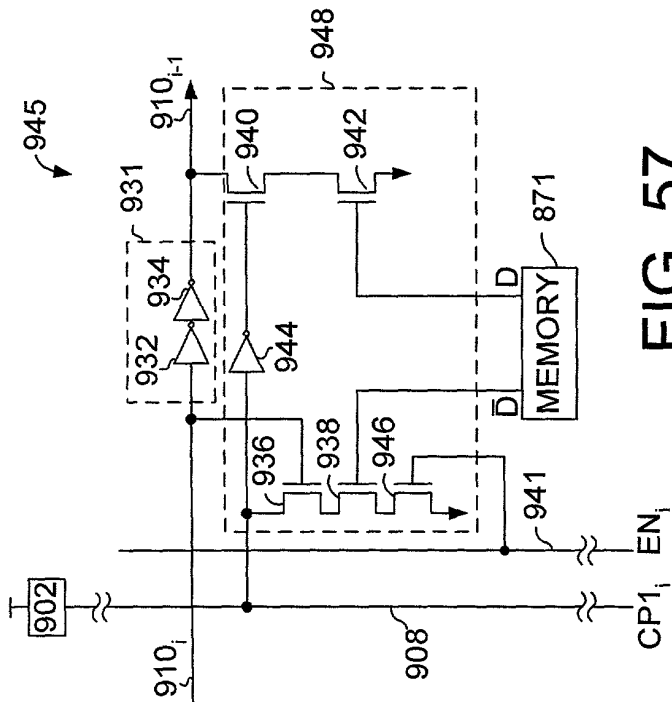
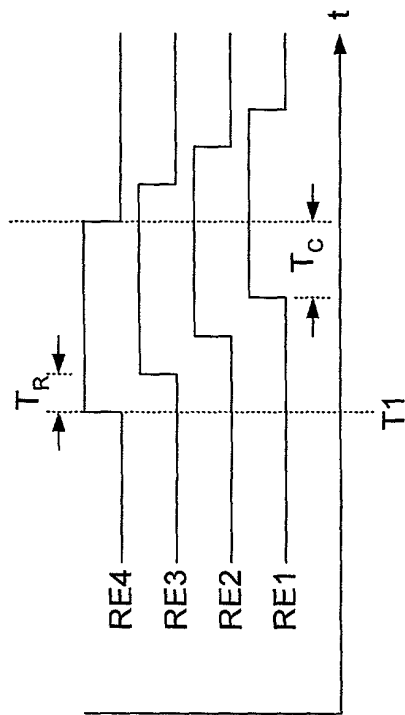


FIG. 58



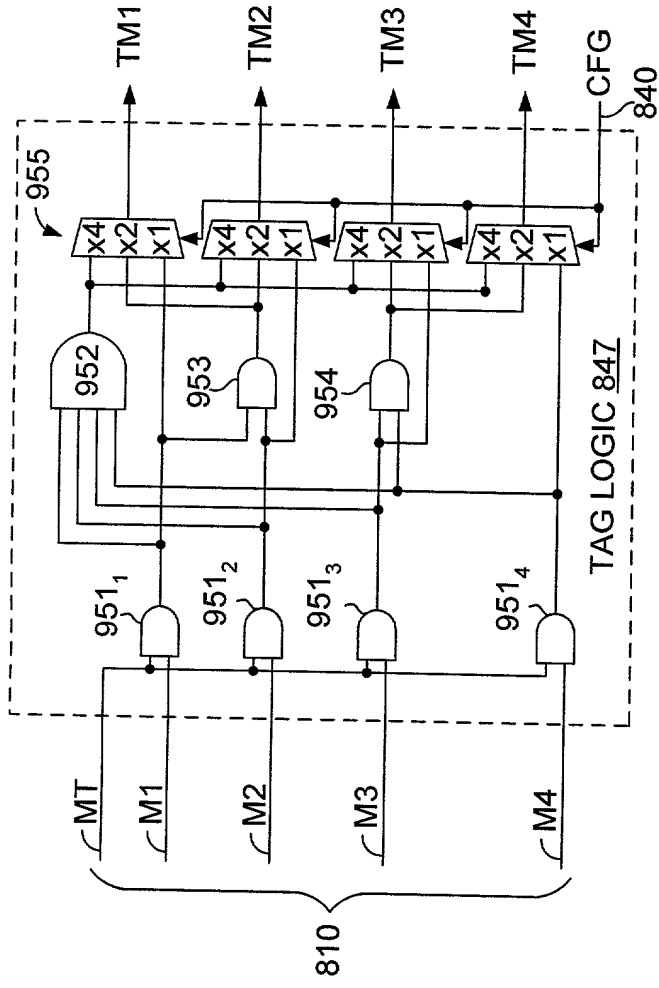


FIG. 59

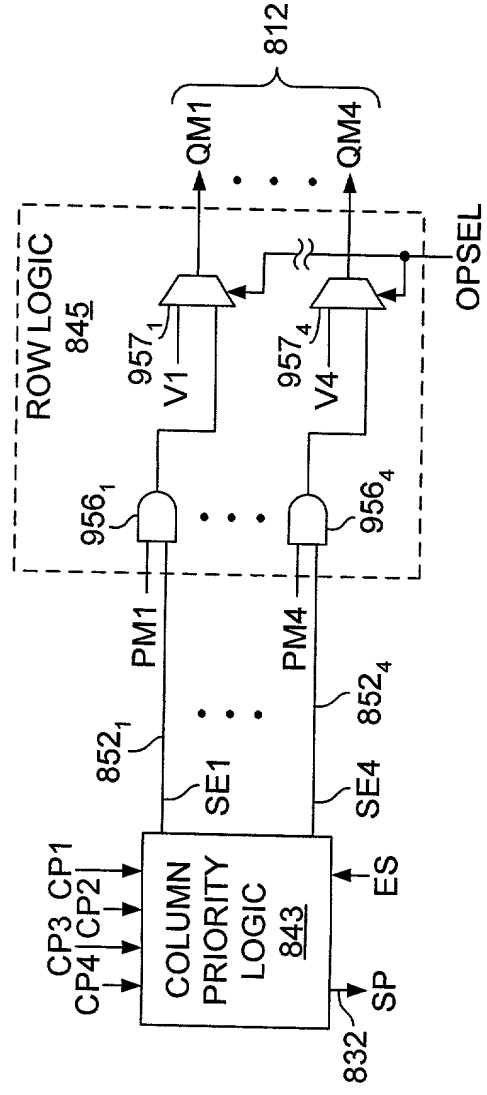


FIG. 60

FIG. 61

FIG. 62

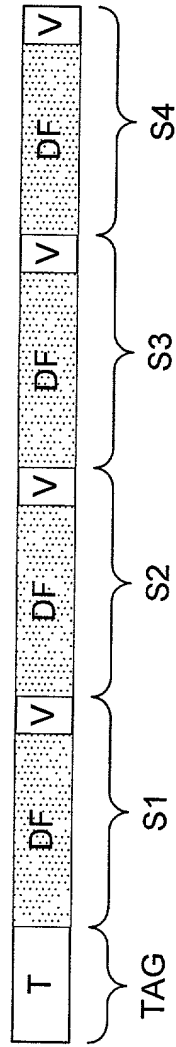


FIG. 63

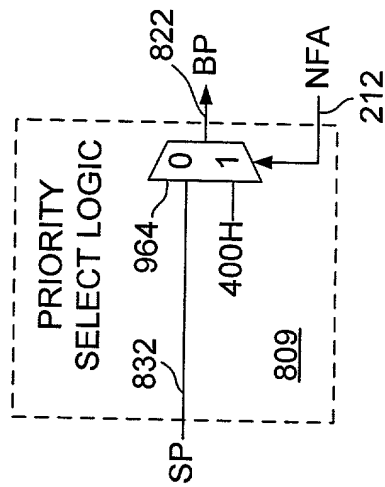


FIG. 64

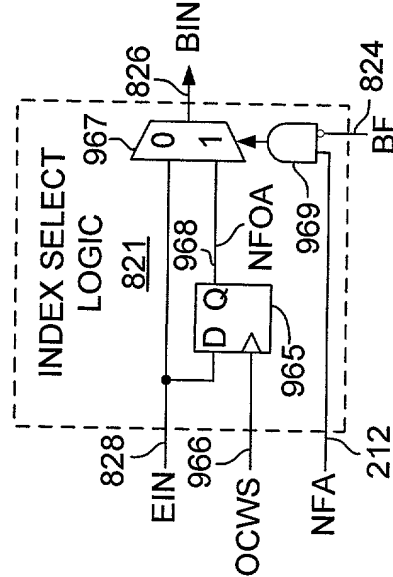


FIG. 65

